# Musculoskeletal complaints in patient with congenital disorders of the hand and arm.

No registrations found.

| | |
|---|---|
| **Ethical review** | Positive opinion |
| **Status** | Pending |
| **Health condition type** | - |
| **Study type** | Observational non invasive |

## Summary

### ID

NL-OMON22283

**Source**
Nationaal Trial Register

**Brief title**
none

**Health condition**

Musculoskeletal complaints
Musculoskeletal Pain (Pubmed MeSh
Congenital anomalies of the upper extremity
Upper Extremity Deformities, Congenital
Adult
Male
Female
Questionnaire
Cross-sectional study

Overbelastingsklachten; aangeboren afwijking; arm; hand; bovenste extremiteiten; volwassenen; mannen; vrouwen.

### Sponsors and support

**Primary sponsor:** University Medical Center Groningen
**Source(s) of monetary or material Support:** Fund pending: Stichting Beatrixoord Noord

Nederland

## Intervention

## Outcome measures

### Primary outcome

Patient reported musculoskeletal complaints

Pain reported on visual analog scale.

Items on pain in SF-36 questionnaire.

### Secondary outcome

Reported upper extremity function

UEWD-R questionnaire

PDI questionnaire

DASH questionnaire

# Study description

### Background summary

The objective of this study is to determine the prevalence of musculoskeletal complaints in congenital anomalies of the upper extremity compared to healthy subjects. Its design is a cross-sectional study using a postal survey. Seven rehabilitation centers in the Netherlands will hopefully contribute; UMCG, Revalidatie Friesland, De Vogellanden, Sint Maartenskliniek, Adelante Limburg, De Hoogstraat Revalidatie, Rijndam Revalidatie.

The following outcomes will be measured: self-reported function and disability of the upper extremity; self-reported prevalence of musculoskeletal complaints and related disability; general and mental health perception; questionnaires (subscales) in Dutch: DASH (Disabilities of the Arm, Shoulder and Hand), Pain Disability Index, RAND-36.

### Study objective

Patients with a congenital anomaly are more likely to develop musculoskeletal complaints compared to healthy individuals.

**Study design**

One timepoint: the filling out of the questionnaire.

**Intervention**

None

# Contacts

**Public**
UMCG

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# Eligibility criteria

## Inclusion criteria

• Patients and healthy subjects aged 18 years or older.

• Sufficient knowledge of the Dutch language to fill out the questionnaire

• A large congenital anomaly of the upper extremity classified by the “OMT CLASSIFICATION OF CONGENITAL HAND AND UPPER LIMB ANOMALIES” as follows:

I. MALFORMATIONS

A. Abnormal axis formation/differentiation—entire upper limb

1. Proximal-distal axis

i...Brachymelia with brachydactyly

ii..Symbrachydactyly

a) Poland syndrome

iv. Intersegmental deficiency

a) Proximal (humeral – rhizomelic)

b) Distal (forearm – mesomelic)

c) Total (Phocomelia)

v. Whole limb duplication/triplication

2. Radial-ulnar (anterior-posterior) axis

i.....Radial longitudinal deficiency - Thumb hypoplasia (with proximal limb involvement)

ii....Ulnar longitudinal deficiency

iii...Ulnar dimelia

iv...Radioulnar synostosis

v....Congenital dislocation of the radial head

vi...Humeroradial synostosis - Elbow ankyloses

vii..Madelung deformity

3. Dorsal-ventral axis

i.....Ventral dimelia

a) Furhmann/Al-Awadi/Raas-Rothschild syndromes

b) Nail Patella syndrome

ii....Absent/hypoplastic extensor/flexor muscles

4. Unspecified axis

i.....Shoulder

a) Undescended (Sprengel)

b) Abnormal shoulder muscles

c) Not otherwise specified

ii.....Arthrogryposis

B. Abnormal axis formation/differentiation— hand plate

1. Proximal-distal axis

i.....Brachydactyly (no forearm/arm involvement)

ii....Symbrachydactyly (no forearm/arm involvement)

2. Radial-ulnar (anterior-posterior) axis

i.....Radial deficiency (thumb - no forearm/arm involvement)

ii....Ulnar deficiency (no forearm/arm involvement)

v....Ulnar dimelia (mirror hand – no forearm/arm involvement)

3. Dorsal-ventral axis

i.....Dorsal dimelia (palmar nail)

ii....Ventral (palmar) dimelia (including hypoplastic/aplastic nail)

4. Unspecified axis

i.....Soft tissue

d) Distal arthrogryposis

iii. Complex

a) Complex syndactyly

b) Synpolydactyly— central

c) Cleft hand

d) Apert hand

e) Not otherwise specified

II. DEFORMATIONS

C. Not otherwise specified

III. DYSPLASIAS

A. Hypertrophy

1. Whole limb

i.....Hemihypertrophy

ii....Aberrant flexor/extensor/intrinsic muscle

2. Partial limb

i.....Macrodactyly

ii....Aberrant intrinsic muscles of hand

## Exclusion criteria

• Comorbidity severely affecting upper extremity function

• Amputation of the upper extremity

• Transverse reduction defects of the upper extremity classified by the “OMT CLASSIFICATION OF CONGENITAL HAND AND UPPER LIMB ANOMALIES” as follows:

I. MALFORMATIONS

A. Abnormal axis formation/differentiation—entire upper limb

1. Proximal-distal axis

b) Whole limb excluding Poland syndrome

iii. Transverse deficiency

a) Amelia

b) Clavicular/scapular

c) Humeral (above elbow)

d) Forearm (below elbow)

e) Wrist (carpals absent/at level of proximal carpals/at level of distal carpals ) (with forearm/arm involvement)

f) Metacarpal (with forearm/arm involvement)

g) Phalangeal (proximal/middle/distal) (with forearm/arm involvement)

B. Abnormal axis formation/differentiation— hand plate

1. Proximal-distal axis

iii…Transverse deficiency (no forearm/arm involvement)

a) Wrist (carpals absent/at level of proximal carpals/at level of distal carpals)

b) Metacarpal

c) Phalangeal (proximal/middle/distal)

II. DEFORMATIONS

A. Constriction ring sequence

• ‘Minor’ congenital anomalies classified by the “OMT CLASSIFICATION OF CONGENITAL HAND AND UPPER LIMB ANOMALIES” as follows:

B. Abnormal axis formation/differentiation— hand plate

2. Radial-ulnar (anterior-posterior) axis

iii…Radial polydactyly

iv…Triphalangeal thumb

vi…Ulnar polydactyly

4. Unspecified axis

i…..Soft tissue

a) Syndactyly

b) Camptodactyly

c) Thumb in palm deformity

ii. Skeletal deficiency

a) Clinodactyly

b) Kirner’s deformity

c) Synostosis/symphalangism (carpal/metacarpal/phalangeal)

II. DEFORMATIONS

B. Trigger digits

# Study design

## Design

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|---|---|
| Study type: | Observational non invasive |
| Intervention model: | Parallel |
| Masking: | Open (masking not used) |
| Control: | N/A , unknown |

## Recruitment

NL

| | |
|---|---|
| Recruitment status: | Pending |
| Start date (anticipated): | 01-01-2018 |
| Enrollment: | 200 |
| Type: | Anticipated |

# Ethics review

Positive opinion

| | |
|---|---|
| Date: | 22-12-2017 |
| 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 | NL6763 |
| NTR-old | NTR6940 |
| Other | METc UMCG : 2017/481 |

# Study results

**Summary results**
None yet