Retrospective study of functional outcome in adults with obstetrical brachial plexus injury who have not had neurosurgery

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The objective of this study is determine the functional outcome in daily life of adults with obstetric brachial plexus injury and determine which limitations in daily life they encounter, functional as well as psychological and social.

Ethical review	Approved WMO
Status	Pending
Health condition type	Spinal cord and nerve root disorders
Study type	Observational non invasive

Summary

ID

NL-OMON30216

Source
ToetsingOnline

Brief title
Functional outcome in adults with obstetrical brachial plexus injury

Condition

- Spinal cord and nerve root disorders
- Therapeutic procedures and supportive care NEC

Synonym
Obstetrical brachial plexus injury; Arm nerve injury

Research involving
Human

Sponsors and support

Primary sponsor: Leids Universitair Medisch Centrum
Source(s) of monetary or material Support: Sophia fonds

Intervention

Keyword: adult, functional outcome, obstetrical brachial plexus injury

Outcome measures

Primary outcome

Action Research Arm test

RAND-36 (Dutch SF-36)

DUX-25 plexus

All related to original level of the injury

Secondary outcome

Correlations between strength and sensibility, strenght and function and

function and sensibility.

Number of "secundary" orthopedic interventions.

Study description

Background summary

There is no research on functional outcome in adults with obstetric brachial plexus injury. Nowadays nerve reconstruction is a possible treatment. Neurosurgeons are reconsidering the indication for this intervention because operated patients often still need orthopaedic surgery at a later time. It is not clear if this happens more often or not in patients who have not had nerve reconstruction. To get a better idea we need information on a group of patients with comparable injury who have not had nerve reconstruction.
A second concern is that not many adults with obstetric brachial plexus injury consult the department of rehabilitation or the neurosurgeon concerned with peripheral nerve injury. The patients who do report themselves often have serious limitations in their daily activities and complaints of pain. Because

of their serious complaints it is imaginable that patients who don't report do experience limitations en and pain in a lesser degree. It is possible that with intervention in an earlier stage the complaints can be prevented or decreased. Patients may be not aware of the possibilities of intervention.

Study objective

The objective of this study is determine the functional outcome in daily life of adults with obstetric brachial plexus injury and determine which limitations in daily life they encounter, functional as well as psychological and social.

Study design

Retrospective, observational study, without control group.

Study burden and risks

The participants are asked to visit the department of rehabilitation of the LUMC. There they will be asked to fill out the questionnaires, a structured physical examniation will be performed and the ARA test will be done.
It is estimated that all the tests will take 2 hours to complete.
There are no risks involved in this investigation.
The participants have no benefits in this investigation.

Contacts

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Trial sites

Listed location countries

Netherlands

Eligibility criteria

Age
Adults (18-64 years)
Elderly (65 years and older)

Inclusion criteria

adults
unilateral obstetric brachial plexus injury

Exclusion criteria

insufficient cognitive ability to fill out the questionnaires
progressive neurological disease such as Multiple Sclerosis
peripheral nerve disease such as polyneuropathy or carpal tunnel syndrome

Study design

Design

Study type: Observational non invasive

Masking:	Open (masking not used)
Control:	Uncontrolled
Primary purpose:	Treatment

Recruitment

NL

Recruitment status:	Pending
Start date (anticipated):	01-01-2007
Enrollment:	30
Type:	Anticipated

Ethics review

Approved WMO

Application type:	First submission
Review commission:	METC Leids Universitair Medisch Centrum (Leiden)

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
CCMO	NL15177.058.06