# Asymmetry in infancy - the effect of pediatric physical therapy on the course of positional preference, deformational plagiocephaly and subsequent developmental delay

Submission date	Recruitment status No longer recruiting Overall study status	<ul><li>Prospectively registered</li></ul>		
27/01/2006		Protocol		
Registration date		Statistical analysis plan		
27/01/2006	Completed	[X] Results		
Last Edited	Condition category	[] Individual participant data		
06/08/2008	Other			

## Plain English summary of protocol

Not provided at time of registration

# Contact information

# Type(s)

Scientific

#### Contact name

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# Additional identifiers

**EudraCT/CTIS** number

IRAS number

ClinicalTrials.gov number

#### Secondary identifying numbers

**NTR440** 

# Study information

#### Scientific Title

Asymmetry in infancy - a prospective, randomised trial: the effect of pediatric physical therapy on the course of postional preference, deformational plagiocephaly and subsequent developmental delay, in children of 6 weeks to 24 months of age, measured with plagiocephalometry, range of motion tests and motor assessment

#### **Study objectives**

Pediatric physical therapy is effective in asymmetry in infancy, especially to positional preference, deformational plagiocephaly and natural course of asymmetrical motor development, established by plagiocephalometry, range of motion tests and motor assessment.

#### Ethics approval required

Old ethics approval format

#### Ethics approval(s)

Ethics approval received from the local ethics committee

#### Study design

Randomised, single blinded, active controlled, parallel group trial

#### Primary study design

Interventional

## Secondary study design

Randomised controlled trial

#### Study setting(s)

Hospital

# Study type(s)

Treatment

#### Participant information sheet

# Health condition(s) or problem(s) studied

No condition, healthy person

#### **Interventions**

Study population:

Group 1: Positional preference (+/- deformational plagiocephaly) with pediatric physical therapy

Group 2: Positional preference (+/- deformational plagiocephaly) without pediatric physical

therapy

Group 3: Deformational plagiocephaly without positional preference

Group 4: No positional preference and/or deformational plagiocephaly

#### Intervention Type

Other

#### **Phase**

**Not Specified** 

#### Primary outcome measure

Parameters:

- 1. Shape of the head established by the features and values of plagiocephalometry
- 2. Active and passive range of motion measurements of the cervical column
- 3. Motor development by the Alberta Infant Motor Scale and the Bailey Scales of Infant Development second edition

All outcome parameters will be established at 4 investigation moments: T0 to T3

T0 = 6-8 weeks

T1 = 6 months

T2 = 12 months

T3 = 24 months

#### Secondary outcome measures

Answers to the questionnaires to investigate the experiences of parents of all participating children

## Overall study start date

22/01/2005

#### Completion date

01/10/2007

# **Eligibility**

### Key inclusion criteria

- 1. Healthy infants of 6 to 8 weeks of age, born at or after a gestational age of 36 weeks or more, without dysmorphisms or syndromatic symptoms
- 2. With or without positional preference of the head and with or without deformational plagiocephaly
- 3. Positional preference and deformational plagiocephaly are based on positional torticollis

#### Participant type(s)

**Patient** 

# Age group

Child

# Lower age limit

6 Weeks

# Upper age limit

8 Weeks

#### Sex

Both

#### Target number of participants

385

#### Key exclusion criteria

- 1. Positional preference caused by pathology, for example congenital muscular torticollis, structural scoliosis, osseal disorders, cerebral palsy
- 2. Dysmorphism
- 3. Syndromes
- 4. Synostotic plagiocephaly (craniosynostosis)

#### Date of first enrolment

22/01/2005

#### Date of final enrolment

01/10/2007

## Locations

#### Countries of recruitment

Netherlands

## Study participating centre Bernhoven Hospital Veghel

Veghel Netherlands 5460 DA

# Sponsor information

#### Organisation

Bernhoven Hospital Veghel (The Netherlands)

#### Sponsor details

P.O. Box 10.000 Veghel Netherlands 5460 DA

#### Sponsor type

Hospital/treatment centre

#### **ROR**

# Funder(s)

# Funder type

Research organisation

#### Funder Name

The Nuts-Ohra Foundation (Stichting Nuts Ohra [SNO]) (The Netherlands)

# **Results and Publications**

## Publication and dissemination plan

Not provided at time of registration

Intention to publish date

Individual participant data (IPD) sharing plan

## IPD sharing plan summary

Not provided at time of registration

## **Study outputs**

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Results article	Results	01/08/2008		Yes	No