

# Face processing in baby's

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Conducting research on the effects of emotions and basic visual information, such as amounts of details, on face processing in infants as measured using EEG and eye-tracking.

<b>Ethical review</b>	Approved WMO
<b>Status</b>	Recruitment stopped
<b>Health condition type</b>	Other condition
<b>Study type</b>	Observational non invasive

## Summary

### ID

NL-OMON38621

### Source

ToetsingOnline

### Brief title

Face processing in baby's

### Condition

- Other condition
- Communication disorders and disturbances

### Synonym

n.v.t.

### Health condition

normale ontwikkeling

### Research involving

Human

### Sponsors and support

**Primary sponsor:** Universitair Medisch Centrum Utrecht

**Source(s) of monetary or material Support:** NWO;middels een VICI beurs

## Intervention

**Keyword:** baby, EEG, eye movement, face

## Outcome measures

### Primary outcome

EEG and eyemovement parameters that reflect several aspects of perceptual and social cognitive processing.

### Secondary outcome

not applicable

## Study description

### Background summary

Recent studies have indicated that the processing of socially relevant stimuli is crucially dependent on perceptual processes. We have shown in several studies in children that a disturbance in perceptual development is directly related to impairments in the processing of social stimuli, especially in autism. In order to better understand this relation we need to study the very early development of aforementioned processes, i.e. to study baby's. A very important aspect within these processes is face perception, particularly the effects of emotions and basic information such as the level of details in an image. The effects of emotions and basic information is previously revealed in adults and older children (3 years of age onwards) in our research group. It is however unknown whether such effects are present in infants, who show a strong development of both perceptual and social information processing. In the current study, we aim to investigate the development of emotional and basic perceptual processes during infancy. Results of this typical development could be used for future research to gain more insight in abnormal development in disorders such as autism.

### Study objective

Conducting research on the effects of emotions and basic visual information, such as amounts of details, on face processing in infants as measured using EEG and eye-tracking.

## Study design

An observational non-invasive study. During the presentation of meaningless abstract stimuli and faces looking behavior and electrical brain activity of baby's will be registered.

## Study burden and risks

Neither the children nor their parents benefit from the study. The risk for children as they participate in the study is virtually non-existent, their participational burden is low (the actual measurements take one hour at max, divided in phases of about 10 minutes). The study is related to this specific group, i.e. baby's, since the experimental question can not be answered in another age range.

## Contacts

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### Scientific

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## Trial sites

### Listed location countries

Netherlands

## Eligibility criteria

### Age

Children (2-11 years)

## Inclusion criteria

Baby's between 9 and 10 months

## Exclusion criteria

- vision problems
- psychomotoric retardation
- neurologic disorders
- born before 38 weeks or later than 42 weeks; We will ask for the presence of visus-problems, psychomotoric retardation and neurologic disorders as reported by the healthcare system as deviant from normal. Questions will be asked to the parents. There will be no additional contact with the health-care system.

## Study design

### Design

**Study type:** Observational non invasive

Masking: Open (masking not used)

Control: Uncontrolled

Primary purpose: Other

### Recruitment

NL

Recruitment status: Recruitment stopped

Start date (anticipated): 16-01-2014

Enrollment: 60

Type: Actual

## Ethics review

Approved WMO

Date: 03-05-2013

Application type: First submission

Review commission:	METC NedMec
Approved WMO	
Date:	26-11-2013
Application type:	Amendment
Review commission:	METC NedMec

## 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	NL43006.041.12