

The effects of anaesthesia on visual perception in children.

Published: 04-02-2010

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The aim of this study is to increase knowledge about the effects of anaesthesia one day after surgery in young children.

Ethical review	Approved WMO
Status	Recruitment stopped
Health condition type	Therapeutic procedures and supportive care NEC
Study type	Observational non invasive

Summary

ID

NL-OMON36755

Source

ToetsingOnline

Brief title

Anaesthesia and visual perception in children.

Condition

- Therapeutic procedures and supportive care NEC

Synonym

Not applicable.

Research involving

Human

Sponsors and support

Primary sponsor: Universitair Medisch Centrum Utrecht

Source(s) of monetary or material Support: Ministerie van OC&W

Intervention

Keyword: Anaesthesia, Children, Visual perception

Outcome measures

Primary outcome

Behavior and electric brain activity during visual perceptual tasks.

Secondary outcome

Not applicable.

Study description

Background summary

Every year more than 100.000 surgeries with complete anaesthesia are performed in children younger than age 10. Little is known about the post-operative effects of anaesthesia on cognitive functioning in the developing brain.

Study objective

The aim of this study is to increase knowledge about the effects of anaesthesia one day after surgery in young children.

Study design

Children planned for an urological operation perform some tasks on visual perception at the department 'Dromedaris' (Wilhelmina Kinder Ziekenhuis), directly before the operation and directly after the operation they perform these tasks again.

Study burden and risks

The burden for the child is a time investment of 15 minutes for each session, the willingness to wear the electrodes and to perform some simple computergame-like tasks.

Contacts

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Trial sites

Listed location countries

Netherlands

Eligibility criteria

Age

Children (2-11 years)

Inclusion criteria

Children aged 4 to 12 years scheduled for an urological operation in daycare surgery in the Wilhelmina Kinderziekenhuis (WKZ) of the UMC Utrecht who receive complete anaesthesia and a regional analgesia (caudal or epidural).

Exclusion criteria

Patients with genetic or congenital syndroms, children who receive special education, children and/or parents who are not fluent in Dutch language and/or patients who are admitted to the hospital overnight. Children who wake up from anesthesia having, according to standard measures, pain, are nauseous, or are restless.

Study design

Design

Study type: Observational non invasive

Masking: Open (masking not used)

Control: Uncontrolled

Primary purpose: Treatment

Recruitment

NL

Recruitment status: Recruitment stopped

Start date (anticipated): 08-04-2010

Enrollment: 30

Type: Actual

Ethics review

Approved WMO

Date: 04-02-2010

Application type: First submission

Review commission: METC Universitair Medisch Centrum Utrecht (Utrecht)

Approved WMO

Date: 22-03-2010

Application type: Amendment

Review commission: METC Universitair Medisch Centrum Utrecht (Utrecht)

Approved WMO

Date: 10-05-2011

Application type: Amendment

Review commission: METC Universitair Medisch Centrum Utrecht (Utrecht)

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	NL28703.041.09