

The ZORA robot supporting rehabilitation and special education for children with severe physical disabilities - ideal conditions and goal attainment

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This study aims to explore the effects on the achievement of goals and the ideal conditions of a ZORA robot-based play intervention within rehabilitation and special education for children with severe physical disabilities with a developmental age...

Ethical review	Approved WMO
Status	Will not start
Health condition type	Bone and joint injuries
Study type	Interventional

Summary

ID

NL-OMON45368

Source

ToetsingOnline

Brief title

ZORA in rehabilitation and special education

Condition

- Bone and joint injuries
- Muscle disorders
- Neuromuscular disorders

Synonym

motor impairment, physical disability

Research involving

Human

Sponsors and support

Primary sponsor: Zuyd Hogeschool

Source(s) of monetary or material Support: Stichting Innovatie Alliantie RAAK Pro

Intervention

Keyword: physical disabilities, play, rehabilitation, robot

Outcome measures

Primary outcome

IPPA scores will be used to assess achievement of goals within the sessions.

Secondary outcome

The child*s perspective on the robot sessions and the view point of the therapist on playfulness and on the sessions in general will be assessed.

Video stimulated recall interviews will be used for evaluating play sessions afterwards.

Study description

Background summary

Play is essential in the development of every child and is a fundamental right for every child. It is related to children*s cognitive, social, physical and emotional development. Free play gives children the possibility to discover their capabilities, try out objects, make decisions, understand cause and effect relationships, learn, persist, and understand consequences of actions. Research has shown that the abilities to play for children with severe physical disabilities are limited. For many reasons children with disabilities experience difficulties in starting, developing and performing play activities in a natural way. The experience of play may be frustrating or may even be impossible for children with physical disabilities. According to research, a robotic toy might be able to function as a tailor made toy for children with disabilities. A robot can provide various stimuli in a controlled manner that could promote the child to interact and learn in different ways.

Study objective

This study aims to explore the effects on the achievement of goals and the ideal conditions of a ZORA robot-based play intervention within rehabilitation and special education for children with severe physical disabilities with a developmental age between 2-8 years.

Study design

A multi-centre study will be conducted over a three month period (April - June 2017) involving children with severe physical disabilities with a developmental age from approximately 2-8 years old.

Intervention

Playing with the ZORA robotic toy during therapy sessions or group sessions (educational/therapy), 6 weeks, 6 sessions per child or group. Predefined play scenarios are explained in the protocol.

Study burden and risks

Negligible.

Contacts

Public

Zuyd Hogeschool

Henri dunantstraat 2
Heerlen 6419 PB
NL

Scientific

Zuyd Hogeschool

Henri dunantstraat 2
Heerlen 6419 PB
NL

Trial sites

Listed location countries

Netherlands

Eligibility criteria

Age

Adolescents (12-15 years)

Adolescents (16-17 years)

Children (2-11 years)

Inclusion criteria

Child with physical disability, developmental age 2-8 years old, chronological age 2-18 years old.

Exclusion criteria

Sensory impairments (deafness and blindness), epilepsy and severe aggressive behaviour.

Study design

Design

Study type: Interventional

Masking: Open (masking not used)

Control: Uncontrolled

Primary purpose: Treatment

Recruitment

NL

Recruitment status: Will not start

Enrollment: 30

Type: Anticipated

Ethics review

Approved WMO

Date: 04-05-2017

Application type: First submission
Review commission: METC Z: Zuyderland-Zuyd (Heerlen)

Study registrations

Followed up by the following (possibly more current) registration

No registrations found.

Other (possibly less up-to-date) registrations in this register

ID: 28828
Source: NTR
Title:

In other registers

Register	ID
CCMO	NL61192.096.17
OMON	NL-OMON28828