

Information sheet for research project “Pain regulation in children using a social robot”

1. Introduction

You have been invited to take part in the research project “Pain regulation in children using a social robot”, your child will participate in this research because he/she is interested in technology and is familiar with the Makersplaats. The goal of this research is to gain insight into what appearance and interaction children value in a robot.

Participation in this research project is voluntary: the decision to take part is up to you. Before you decide to participate we would like to ask you to read the following information, so that you know what the research project is about, what we expect from you and how we deal with processing your personal data. Based on this information you can indicate via the consent declaration whether you consent to take part in this research project and the processing of your personal data.

You may, of course, always contact the researcher via l.p.m.rooijackers@student.tue.nl, if you have any questions, or you can discuss this information with people you know.

2. Purpose of the research

This research project will be managed by Lieke Rooijackers.

The purpose of this research project is to research to what extent adding an interactive attachment to a Miro-E robot enhances the engagement with Miro-E for children aged 7-13. Miro-E is a social robot which is used to distract children from their pain in post-operative care during their hospitalization. This part of the research involves the organization of a workshop in which children are asked to design their robot. This will provide us with insights into what they think is important and help us when looking through their eyes once we are making a design for the robot.

3. What will taking part in the research project involve?

Your child will be taking part in a research project involving the following activities:

- Designing their own robot:
 - Your child will have the opportunity to design their own robot in the Makersplaats during a 1.5 hour workshop.
 - This fun and interesting workshop will encourage children to explore their curiosity and creativity by using various materials and techniques to construct their robot. Supervision is present to help the children in realizing their ideas.
 - At the beginning of the workshop, your child will be introduced to a real social robot called Miro-e, providing them with an opportunity to learn about and interact with current technologies.
- Questions for children:
 - During the workshop your child will be asked questions about what they believe is important when playing with others and about their creation to help them with their ideas.
 - These questions will also help researchers understand children’s perceptions of the social robot and enable them to view the design process through the children’s perspective.
 - Answers to these questions will be recorded via audio/video, after which transcripts will be created.
- Observation:

- Researchers will observe your child during the workshop, looking for interesting behavior or creations.
- Photographs and videos will be taken during the workshop solely for research purposes, to document the activities and creations of the children.
- Questions for parents/caretakers:
 - After the workshop, the researcher might ask you any further questions about your child's creation.

This study will be completely anonymous, and the data obtained from the study will not be traceable to you or your child. The photographs and video / audio recordings will be anonymized.

Please note that there will be no compensation for your participation in this research project.

By participating in this research project, you are contributing valuable insights that will inform the development of interactive attachment for social robots.

4. Potential risks and inconveniences

Your participation in this research project does not involve any physical, legal or economic risks. Supervision is present who will help the children with making their robot. However, the overall research project included the topic of regulating pain, this will not be part of this research. This means the workshop will not be physically or mentally harmful, but instead a fun and interesting experience for your child. You do not have to answer questions which you do not wish to answer. Your participation is voluntary. This means that you may end your participation at any moment you choose by letting the researcher know this. You do not have to explain why you decided to end your participation in the research project. Ending your participation will have no disadvantageous consequences for you.

If you decide to end your participation during the research, the data which you already provided up to the moment of withdrawal of your consent will be used in the research. Do you wish to end the research, or do you have any questions and/or complaints? Then please contact the researcher via l.p.m.rooijackers@student.tue.nl.

5. Confidentiality of data

The raw and processed research data will be retained for a period of 6 months. Ultimately after expiration of this time period the data will be either deleted or anonymized so that it can no longer be connected to an individual person. The research data will, if necessary (e.g. for a check on scientific integrity) and only in anonymous form be made available to persons outside the research group.

This research project was assessed and approved on 01/03/2024 by the ethical review committee of Eindhoven University of Technology.

***** Scroll down for the consent form *****

Consent form for participation by a child

By signing this consent form I acknowledge the following:

1. I am sufficiently informed about the research (on my child) through a separate information sheet. I have read the information sheet and have had the opportunity to ask questions. These questions have been answered satisfactorily.
2. I (or my child) take(s) part in this research project completely voluntarily. There is no explicit or implicit pressure for me to take part in this research project. I am clear that I can end participation in this research project at any moment, without giving any reason. I do not have to answer a question if I do not wish to do so.

Name of Parent/caretaker:

Signature:

Date:

Name of researcher: Lieke Rooijackers

Signature: 

Date: 22/03/2024