

Health~Holland Project Page

An overview of all public private projects and partnerships supported by the Top Sector Life Sciences & Health

The Top Sector Life Sciences & Health (LHS) wants to illustrate all its currently accepted and ongoing public private projects and partnerships to our international audience throughout the world. Therefore, the Health-Holland website will be complemented by the new Health-Holland project page. This page will provide an overview of all the projects and partnerships hosted in the Top Sector LSH from the start of the top sector approach. To successfully launch our new project and partnership webpage, we ask you to provide us with a correct, clear, and legible content on your public private partnership's project (all in British English).

Project page content

Health-Holland wants to collect content on your public private partnership's project. Can you provide us with the following aspects on your partnership/project:

1. **LSH project number**

LSHM17046-SGF

2. **Clear popular title**

Test and training devices for daily activities in children with Cerebral Palsy

3. **Clear scientific title**

ADL-TT Device in children with Cerebral Palsy

4. **One liner**

The ADL-TT device is a feasible attractive test and training device for unique daily bimanual lifting activities.

5. **Short summary of the project**

Unique bimanual daily relevant lifting task is developed (ADL-TTD) and tested in children with cerebral palsy. The ADL-TTD has shown to be technically valid, feasible and attractive to test and train daily important lifting tasks. Testing and specific training has shown positive results in a pilot feasibility study at Adelante.

6. **Public summary**

In cooperation with UMACO and Adelante rehabilitation the Maastricht University an instrument for testing and training daily activities – ADL-TTD- in children with cerebral palsy has been developed. The technical elements are constructed by UMACO and the validation of the prototype in cooperation with Adelante.

The ADL-TTD will open the possibility to test and train unique individual daily live tasks in a rehabilitation setting and in future at home. The use of sensor technology and feedback system embedded in the ADL-TTD will increase the possibility to practice relevant ADL activities in several locations, guided by therapists. The independent training, the easiness of practicing will enhance the compliance for treatment.

In this project the feasibility was tested in the rehabilitation setting in existing programs.

All 8 therapists as 18 children reported high satisfaction level for the use of ADL-TTD, its design and the game used for training. The feasibility to perform the daily ADL-TTD training of strength was maximal, all 18 children could perform the training during the total training period and no data were lost. We added the use of the ADL-TTD in a existing bimanual training program to increase the use of the ADL-TTD in regular programs. The sensor technology (position sensors) and feedback in the game did function correctly and can be refined according to the wishes of the children and therapists.

This project of development and feasibility testing of the lifting task in one game is finished and approved useful for therapists and children with cerebral palsy. Sensor technology and feedback of the results can be finetuned to the training program and especially the visualization of the results will be the next step for the therapists and children. The ADL-TTD will be used to train this lifting task in regular care at Adelante.

7. **Keywords**

ADL-TTD, cerebral palsy, sensor technology, gaming,

8. Consortium partners

UMACO
Maastricht University
Adelante rehabilitation
Johanna Kinderfonds

Indicate all partners that contribute and send us the original logos of their organisation/company.

9. Start date of the project

April 2018

10. End date (intended) of the project

April 2019

11. Project duration

1 year

12. Image (free of copyright)

The image will be used to illustrate the project, this can include a picture of the laboratory, consortium partners, target audience, product, innovation, building, university, or ambience of the project. It is important that the image is free of copyright so Health~Holland is able to use it in their communication channels.





13. Link

<https://www.procarebv.nl/product/adl-ttd-meter/>

If possible a link to a webpage with more information.

Project page filters

Health-Holland makes use of several filters to facilitate the search of projects. Can you select filters that address your public private partnership's project:

1. **Objective:** care
2. **Kind of research:** industrial
3. **Major TKI-LSH roadmap of project:** (select one)
 - 1) health technology assessment & quality of life
4. **Minor TKI-LSH roadmap of project:** (select one)
 - 1) health technology assessment & quality of life
5. **Operating in:** healthcare
6. **Technology readiness level (TRL) of project:** select the current and predicted TRL (see attachment A)

Current TRL:	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-
Predicted TRL:	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-

Comments

If you have any comments or questions, please note here.

Editorial rights

Health-Holland will perform a check on the submitted text prior to publication. If we have any questions regarding the provided content, we will contact you before we publish the content of the project. For more information, please contact Hanna Groen (tki@health-holland.com).