



The Helmsley Pediatric & Adolescent  
Rehabilitation Research Center

האוניברסיטה העברית בירושלים  
THE HEBREW UNIVERSITY OF JERUSALEM



# THE ROLE OF ENVIRONMENT IN THE ACTIVITY AND PARTICIPATION OF CHILDREN WITH DISABILITIES

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# Research Team

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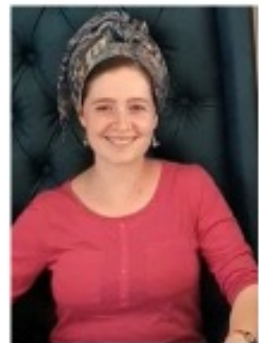
Eli Peleg



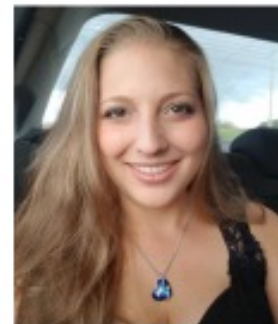
Eliel Rothe



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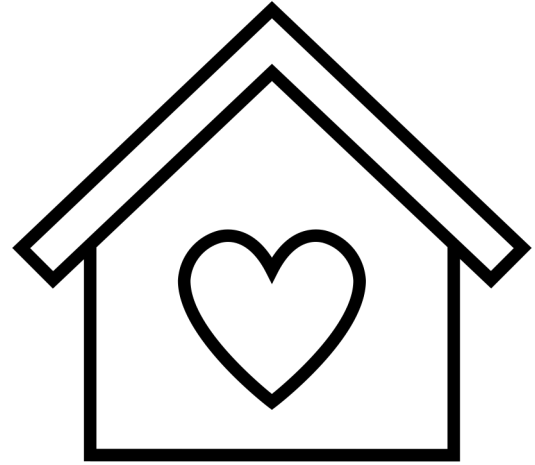
Shavit Nevo



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# BACKGROUND



No studies examined differences in participation at home vs in the clinic in children with disabilities (Kylén et al., 2022; Madden & Bundy, 2019)



Parent report may present a subjective representation of a child's abilities in daily life (Mutlu, 2017)

There are disagreements between caregivers' and clinicians' ratings (Elad et al., 2013)

# OBJECTIVE

To identify the role of environment in children's activity and participation

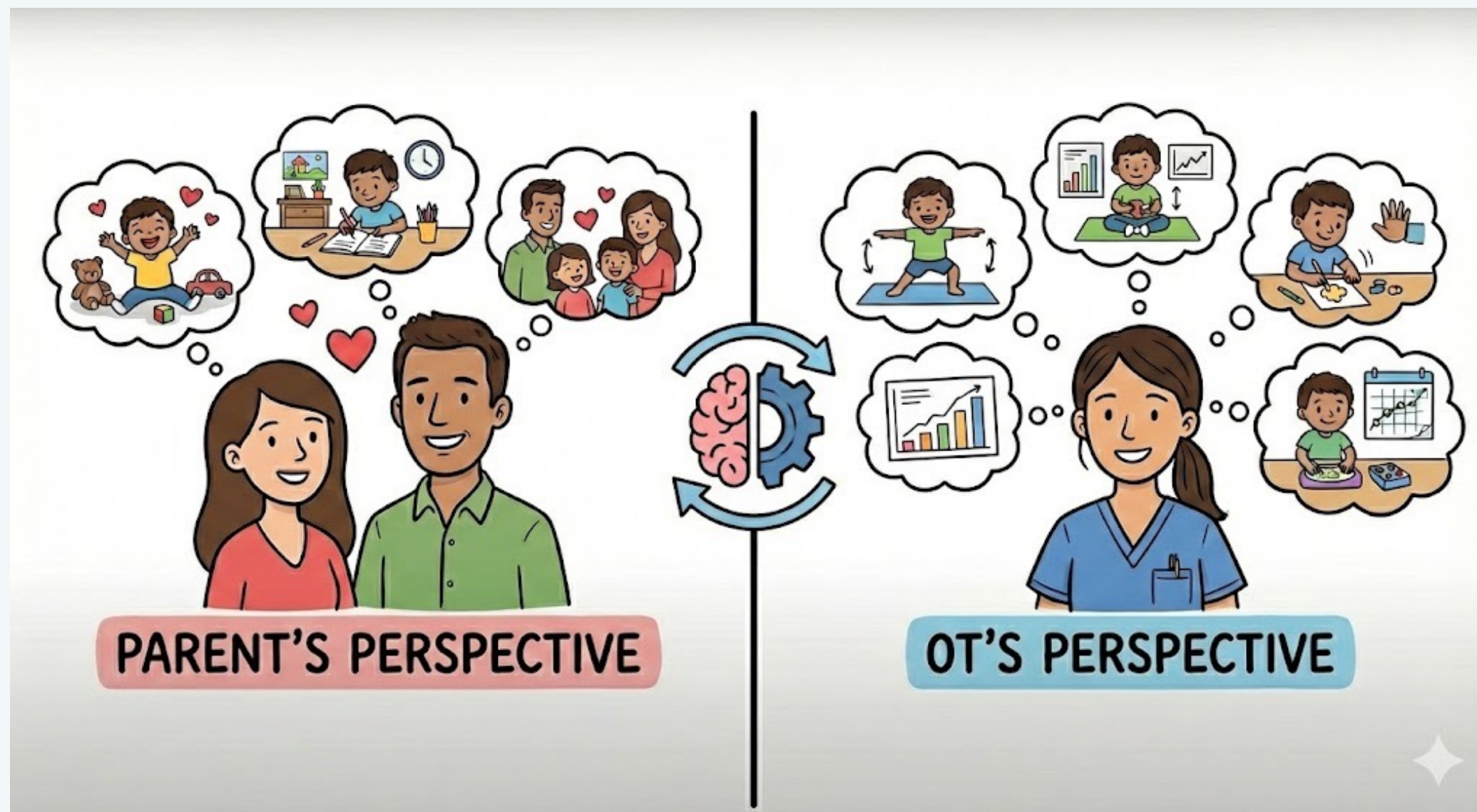
1. Compare children's performance at home vs. in the clinic



# OBJECTIVE

To identify the role of environment in children's activity and participation

2. Compare parents and OTs perspectives



# METHODS

## PARTICIPANTS

- 35 children ages 5-18
- With various disabilities
- Recruited from out-patient rehabilitation and clinics departments at ALYN Hospital, Jerusalem

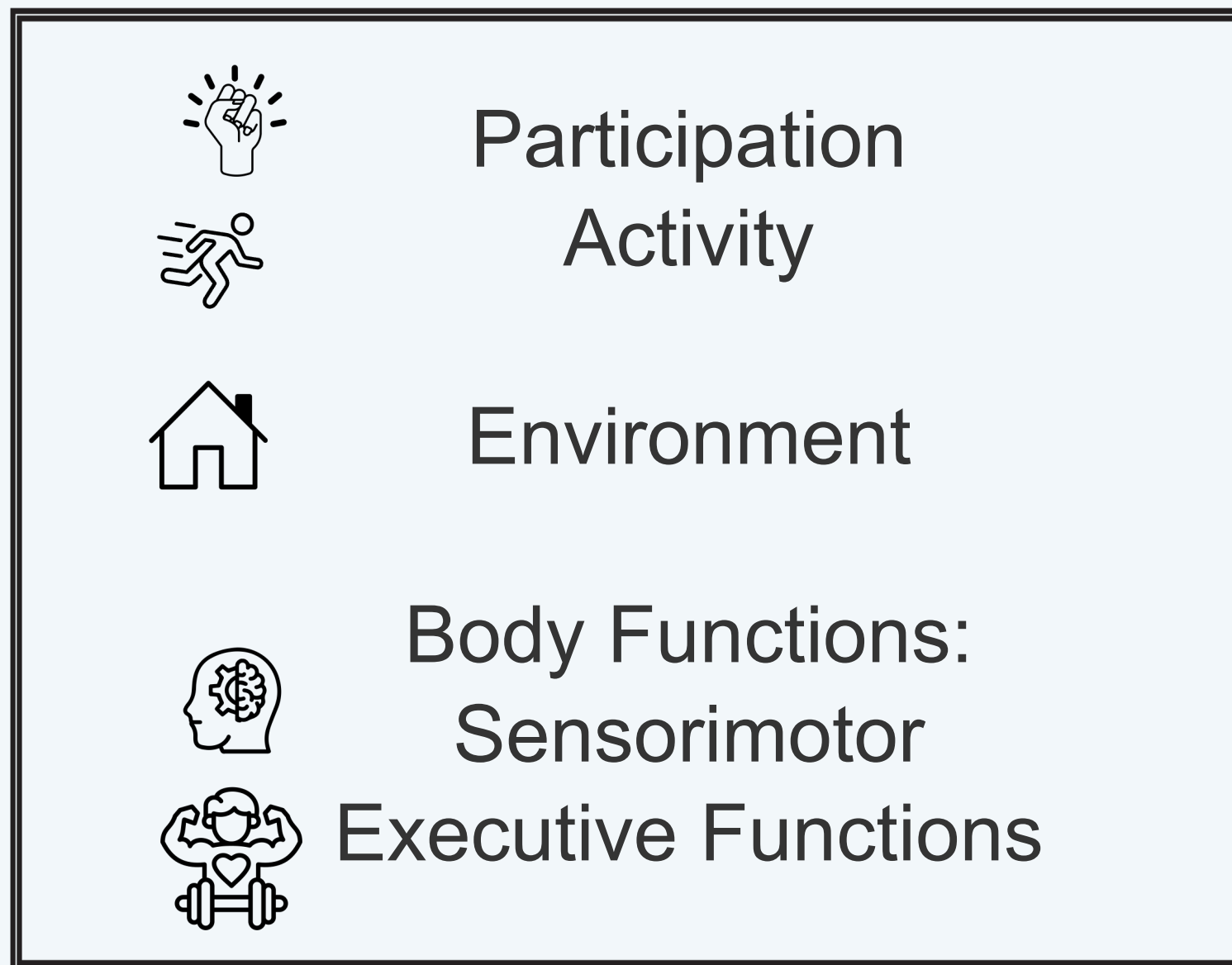


# INSTRUMENTS



**H**ome **O**bservation  
**P**ediatric **E**valuation

A tool to assess activity and participation  
based on parent-provided home videos  
according to the ICF model



# PROCEDURE

Choose activity based on discussion of child's strengths and weaknesses

Activity filmed by parents at home and sent to therapist via What's App

Activity filmed by OT in the clinic

Videos uploaded by OT to secure site

Home and clinic videos viewed and scored by OT according to HOPE protocol

Parents score activity and participation before and after viewing videos

# DATA ANALYSIS

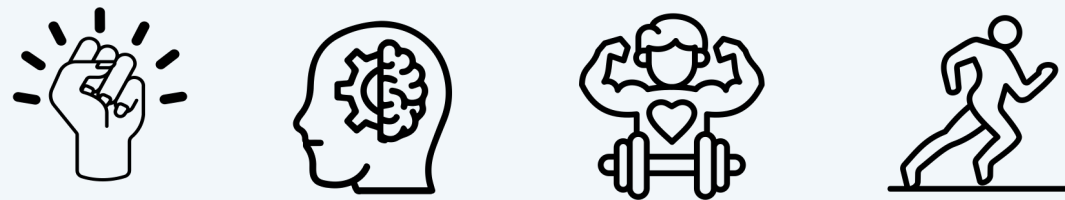
Paired T-tests to compare environments, and parents' vs therapists' scores



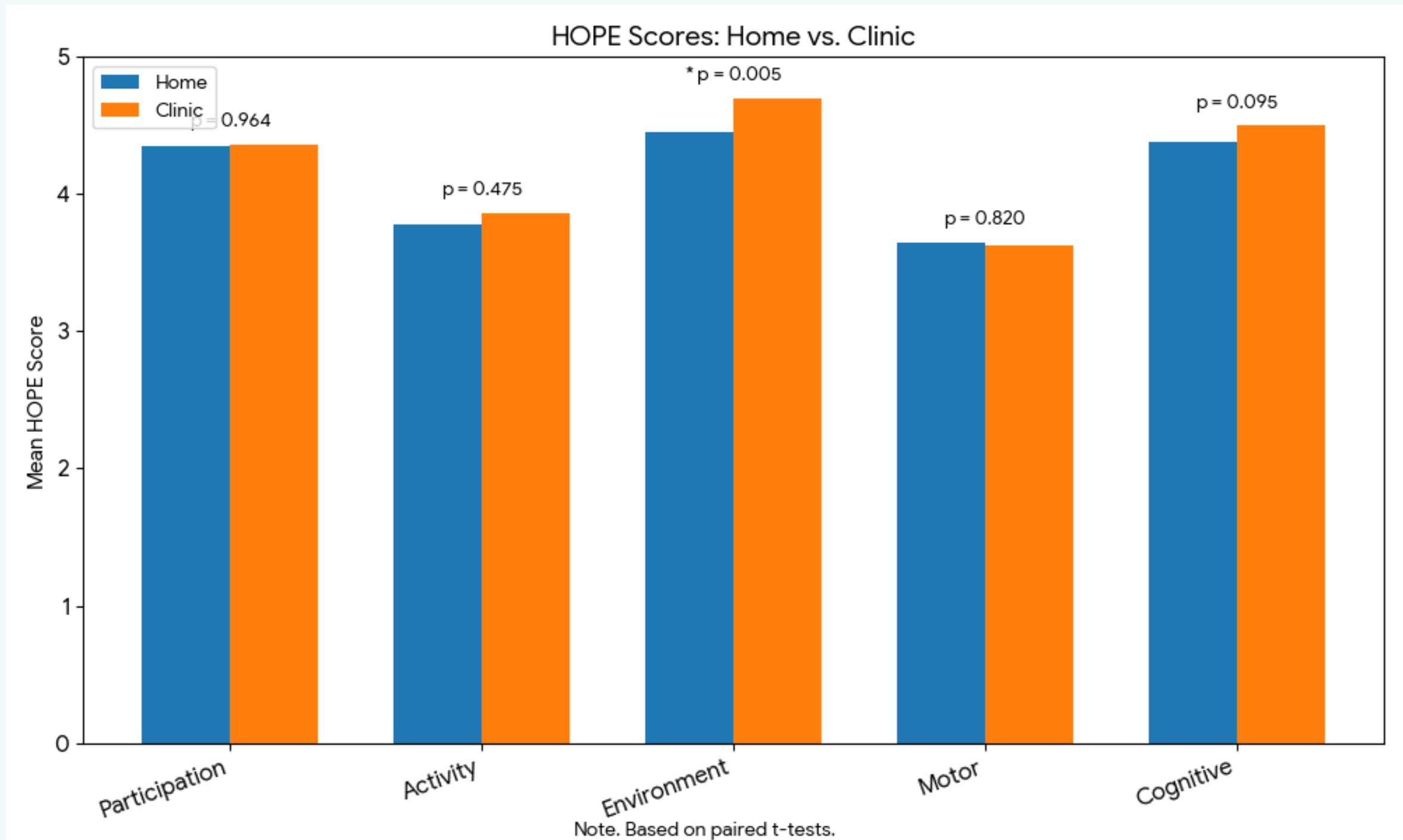
# RESULTS: ENVIRONMENTS



Significantly higher environmental factors in clinic

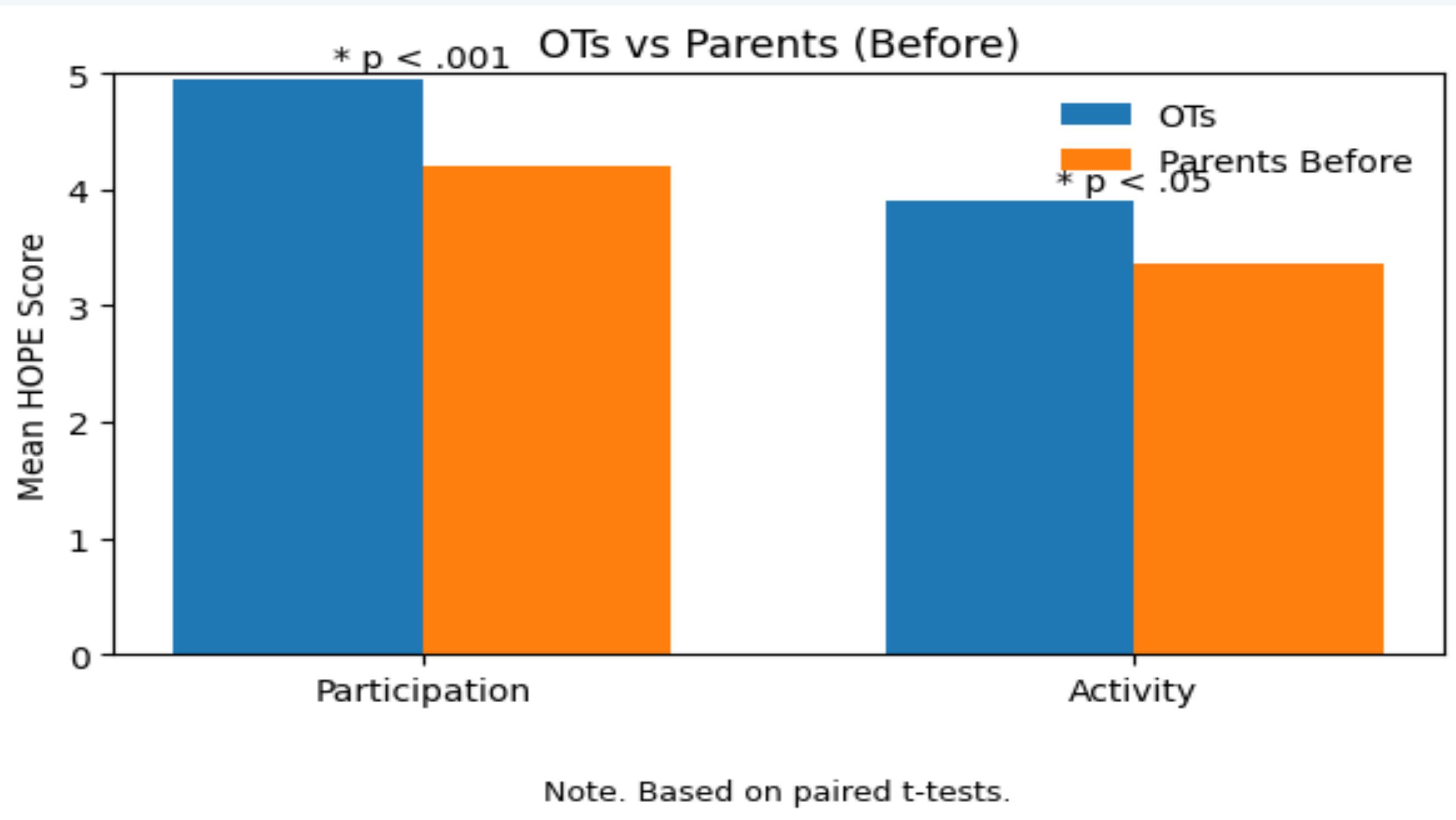


No significant differences in other factors between home and clinic



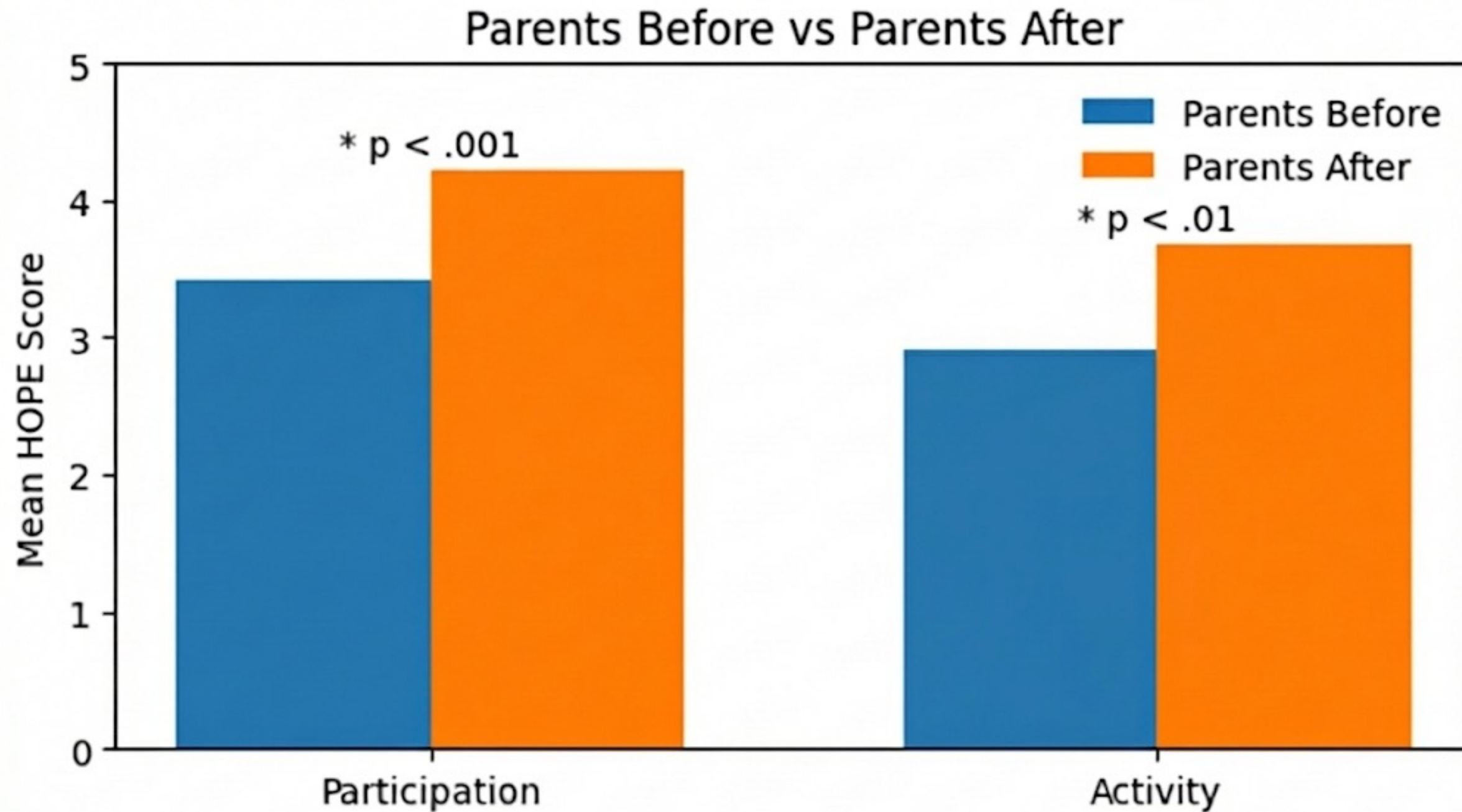
# RESULTS: PERSPECTIVES

Significant differences found between OT ratings and parent ratings before viewing videos



# RESULTS: PERSPECTIVES

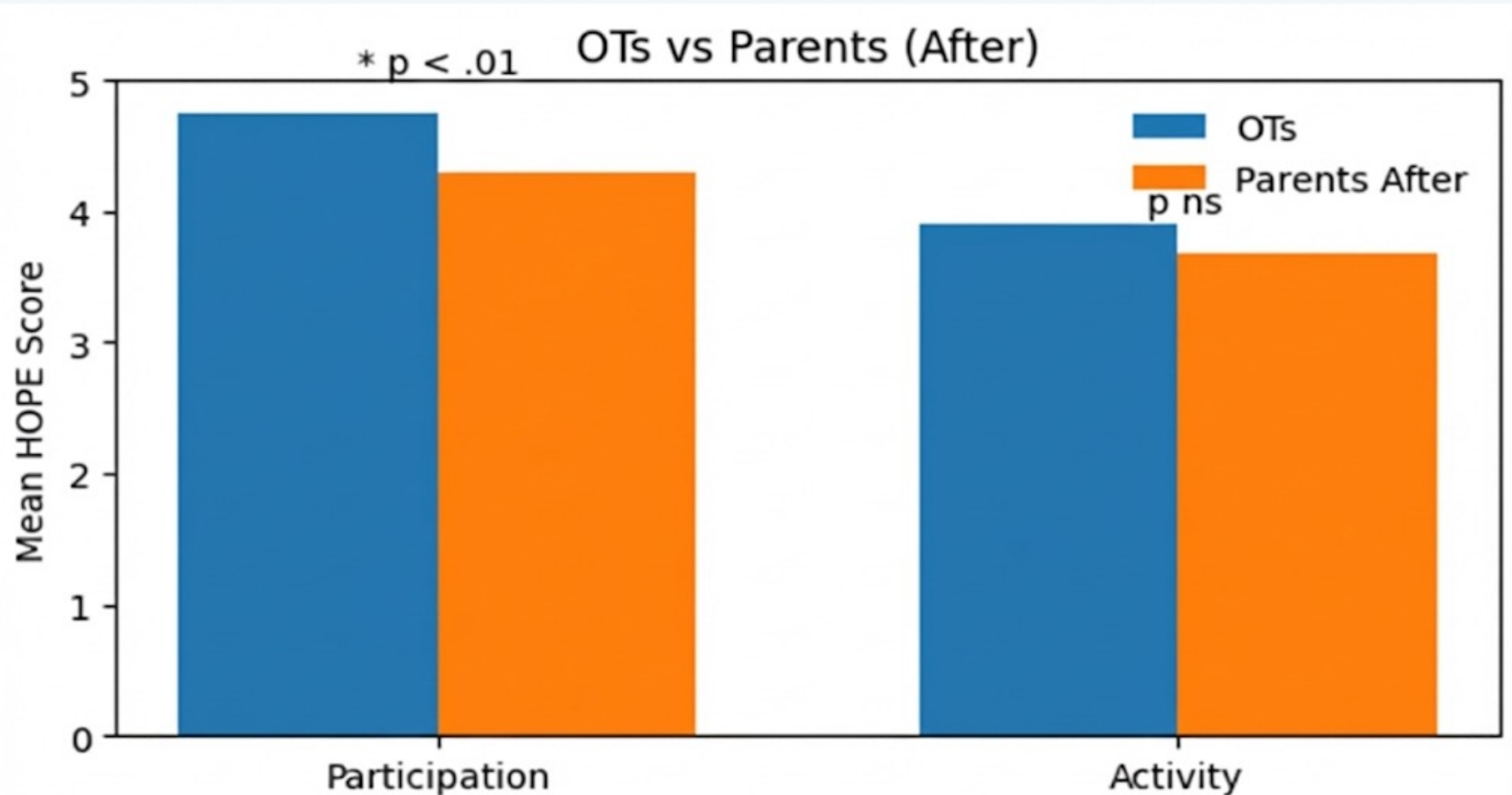
Following viewing videos parents' ratings increased significantly



Note. Based on paired t-tests.

# RESULTS: PERSPECTIVES

Following viewing videos, parents' ratings closer to OT's ratings: difference in activity score not significant



Note. Based on paired t-tests.



# CONCLUSIONS

- Children's participation, activity independence and motor skills appeared to be stable between contexts
- Environmental scores were significantly higher in the clinic than at home, indicating greater environmental support in the clinic setting
- Parents rated their children as less independent and less participatory than occupational therapists did





# CONCLUSIONS

- OTs and parents may perceive child's participation and activity differently
- Viewing the child's performance on video may have caused a change in the parents' perceptions of the child's abilities
- **Performance vs Capacity:** It is possible that videoing the children motivated the children and parents to greater independence, similar to clinic behavior
- Using parent-recorded home videos as an intervention tool to encourage participation and activity independence





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# THANK YOU FOR LISTENING!

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HOPE score form



HOPE explanation  
video