

THE EFFECT OF AN INTENSIVE BALANCE THERAPY CAMP IN CHILDREN WITH DCD

Silke Velghe



Background

Developmental **C**oordination **D**isorder

- Difficulties acquiring motor skills (gross+fine)
- 5-6 % all school aged children



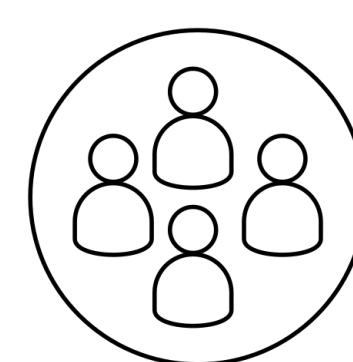
Up to 87% experiences balance control problems
→ Limiting participation & ADL



Therapy aiming to improve balance = heterogeneous



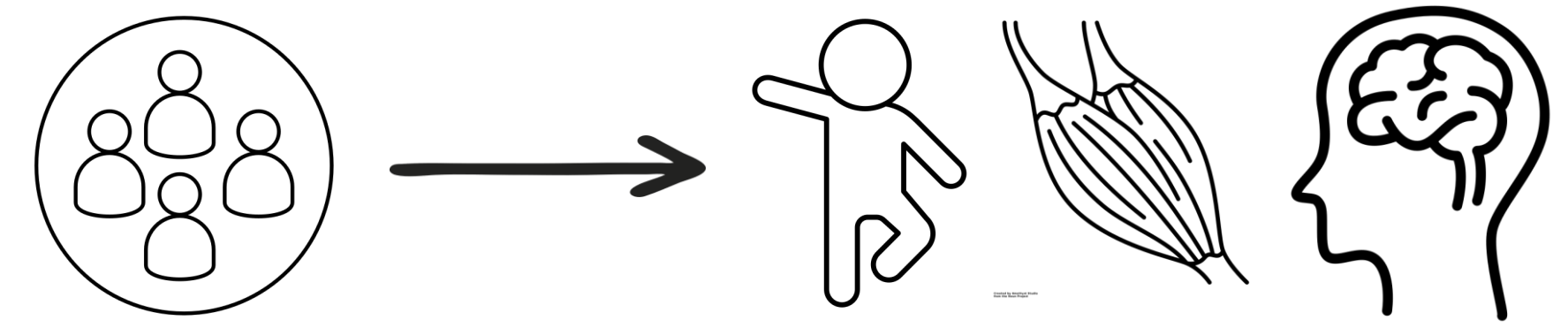
Effect of therapy unclear on control mechanisms (muscle & brain)



Intensive therapy was proven successful in other populations, no studies in children with DCD

Methodology

Interventional study



Participants

48 children with DCD (6-12y)

Therapy

- Intensive therapy camp: 6 days, 40 hours
- 1:1 ratio therapist - participant
- All underlying systems (Fig 1.) covered in functional activities

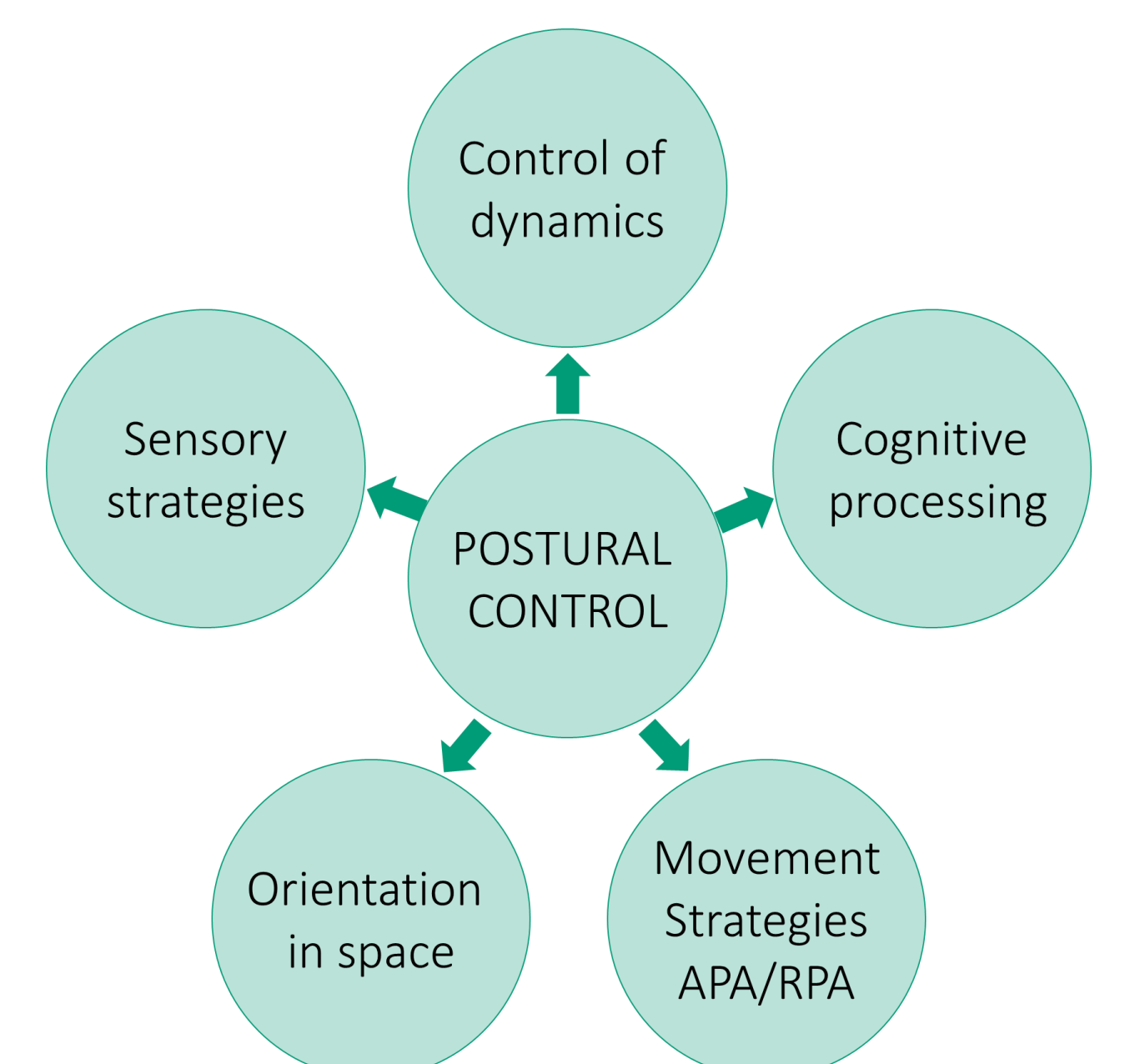


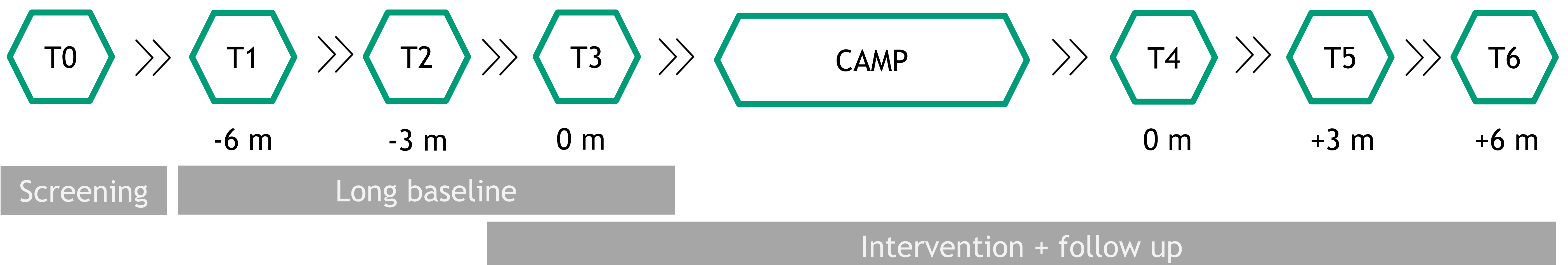
Fig. 1

RESEARCH QUESTION:

What is the effect of an intensive balance therapy camp on balance, muscle and brain activity in children with DCD?

CLINICAL RELEVANCE

By understanding control mechanisms involved in balance control, a more individualized, comprehensive approach can be developed to train balance in children with DCD



Outcome measures



Drs. Silke VELGHE
silke.velghe@uhasselt.be
info@revalresearch.be - www.revalresearch.be

REVAL
REHABILITATION RESEARCH

UHASSELT