A RCT focusing on the impact of a PICIHBI on outcomes for HIV+ children on ART and their caregivers

Anandé Ferreira (Uys) Caraleigh Otto Robyn Meissner

WFOT Congress 25 May 2018
Rationale
Play-informed caregiver-implemented home-based intervention (PICIHBI)

Caregiver and child (in groups)

Caregiver education

Experiential

OT and co-facilitator (translator)

GOBox

Application at home

monthly sessions aligned to clinic appointment
Extent of developmental delay

Extent and nature of academic learning difficulties

Levels of playfulness

Self-care and independence

Caregivers self-efficacy to fulfill their parenting role
Method

Experimental
- PICIHB1
- Group based
- Caregiver and child dyads
- Home application with resources

Control
- Conventional OT
- Individual child and OT
  Child-focused

10 sessions

Pragmatic, single-blinded RCT with pre-, mid- and post-test
RCT Timeline

Ethical clearance

Interrater reliability

Recruitment April-June 2014

Baseline (Pre-test)

Randomisation

1st intervention period July - November 2014 (5 sessions)

Mid-test

2nd intervention period March - July 2015 (5 sessions)

Post-test

Analysis
Population

• children receiving care at the GSH paediatric HIV clinic, and their caregiver (n=130)
A RCT investigating the effect of a play-informed caregiver-implemented home-based intervention on playfulness for HIV positive children aged 10 months to 8 years on HAART from a low socio-economic status.

Authors: Anandé Ferreira (Uys)¹, A/Prof Elelwani Ramugondo¹ and A/Prof Reinie Cordier²

¹University of Cape Town, Cape Town, South Africa; ²Curtin University, Perth, Australia
Introduction

Source of motivation
Perception of control
Ability to suspend reality
Framing

Play
Non Play
Rationale & Research Objectives

Establish Playfulness Profile of children with HIV

Compare Test of Playfulness (ToP) scores and items
Sample

24

12
- 4 years
  - 8 females
  - 4 males
  - 2.6 hours daily TV

12
- 4.7 years
  - 7 males
  - 5 females
  - 2.5 hours daily TV
Research Assessment Tool

Test of Playfulness

Baseline → Mid → Post Intervention
Results: Playfulness Profile

Mean value of children with HIV in the PICHIBI group at post assessment at -0.63

Mean value of children with HIV in the PICHIBI group at baseline at -0.7025

Mean value of children with HIV in the conventional group at baseline at -0.81

Mean value of children with HIV in the conventional group at baseline at -0.425

Approximate mean value of typically developing children in reference group at 0.4

Approximate mean value of atypically developing children in reference group at -0.38
Results: ToP Items

(r = effect size)
Conclusion

Low playfulness scores

At risk for occupational deprivation

Group intervention as alternative

Occupational therapy practice—play as end goal

Importance of caregiver involvement