A RCT comparing OT interventions that aim to improve

developmental outcomes

for HIV+ children (aged 6 months – 5 years) on ART

Robyn Meissner, Pam Gretschel and Elelwani Ramugondo WFOT Congress 25 May 2018







Rationale

- HIV: neurodevelopmental impacts
 - Gross and fine motor
 - Cognitive
 - Behavioural
 - Emotional
 - Social
 - Encephalopathy (HIVE)
- No data on OT interventions focusing on developmental delay within this population



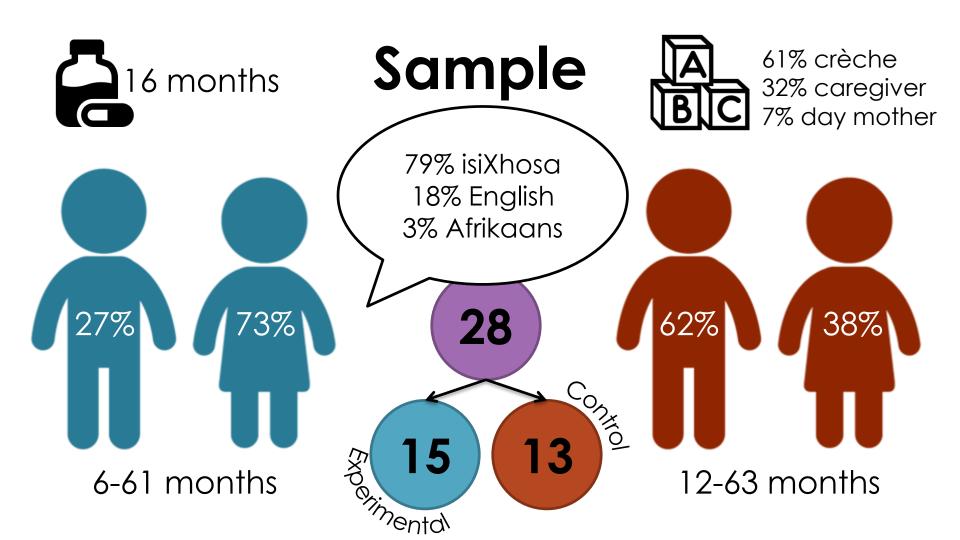
Objective

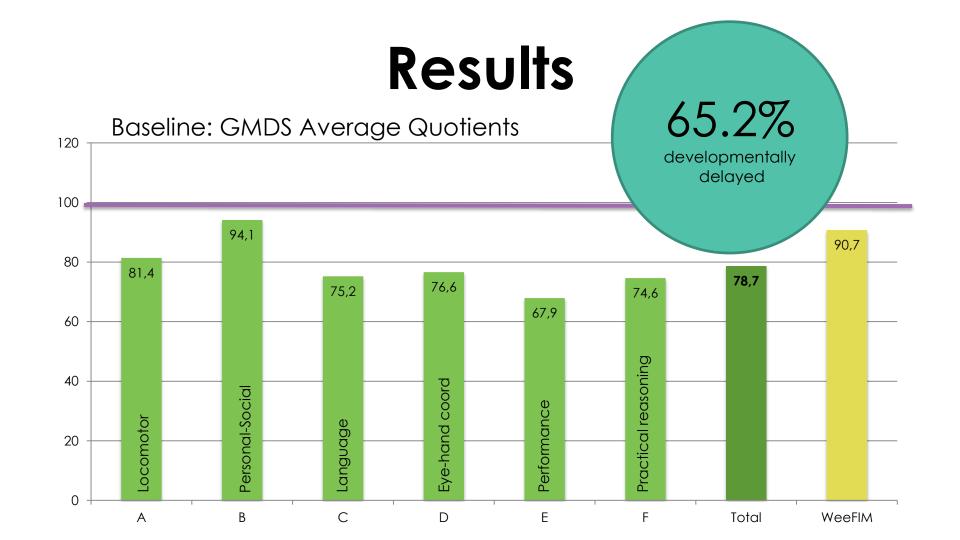
6 months – 5 years old Pre-formal school going



- Similar developmental outcome
- GMDS-ER
 - Locomotor
 - Personal-social
 - Language
 - Eye-hand coordination
 - Performance
 - Practical reasoning

- Similar functional independence outcome
- Paediatric Functional Independence Measure (WeeFIM)
 - Self-care
 - Mobility
 - Cognition



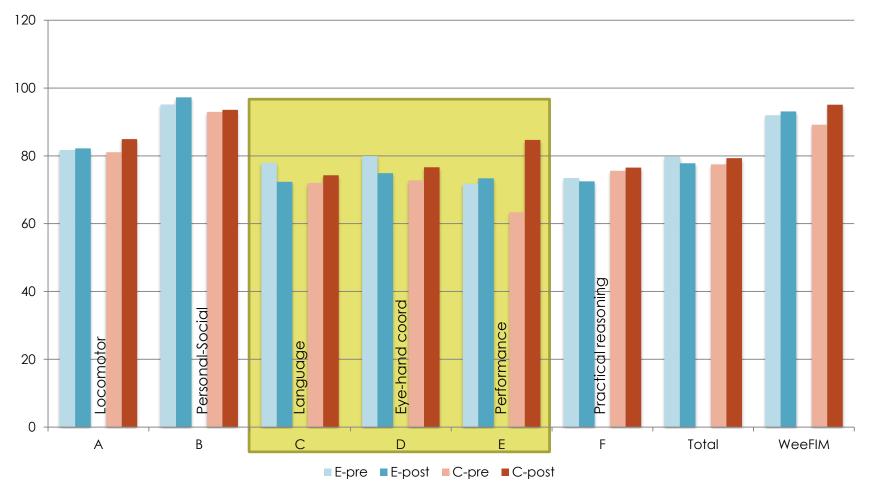


Results

- Post
 - Similar quotient scores with no significant differences
 - Total GMDS
 - GMDS subscales
 - Total WeeFIM

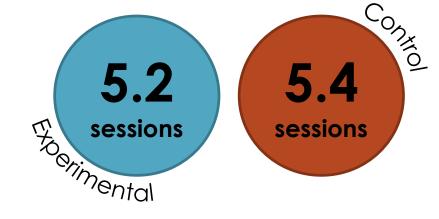
 Both groups had better quotient changes over the time period with intervention

Pre-Post: Average Quotients



Dosage

Average attendance



- Clinic factors
- Caregiver motivation and priorities

Conclusion

- Non-inferior results
- PICIHBI = Alternative intervention
 - With greater reach
 - Caregiver focused future/longer lasting benefits for child?
- Conventional OT
 - One-on-one attention
 - logistically easier

PICIHBI

For more information:

Robyn Jess Meissner, Jessica Ferguson, Caraleigh Otto, Pam Gretschel & Elelwani Ramugondo (2017): A play-informed, caregiverimplemented, home-based intervention for HIV-positive children and their families living in low-income conditions in South Africa, World Federation of Occupational Therapists Bulletin



Guiding Opportunities