Emerging factors influencing motor skill development among preschool learners in the West Coast of South Africa

Janke Van der Walt, Dr Marianne Unger, Dr Nicola Plastow (In collaboration with 4<sup>th</sup> year OT students research)
Stellenbosch University: Faculty of Occupational therapy and Faculty of Physiotherapy



## Prevalence Study: sample

Grade R pupils
Government Schools
Mainstream schools
Age 5 - 7
Multistage Cluster Sampling
according to:

- -Education District
- -Location (urban main place; urban area; rural area)
- Fee vs no-fee

#### **Exclusion criteria:**

- Neurological conditions e.g. cerebral palsy
- Physical disabilities
- Physical injuries

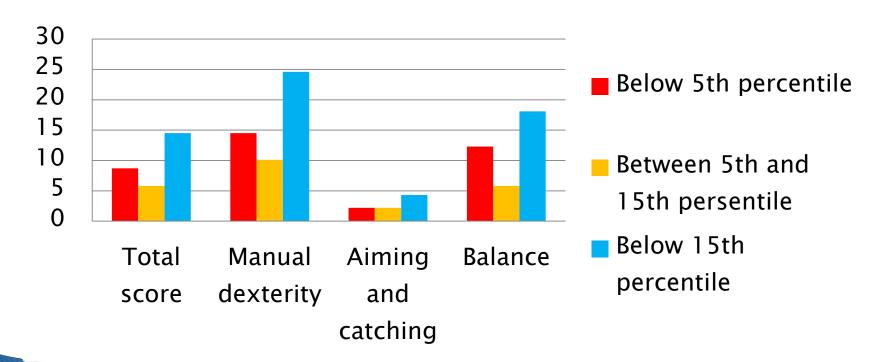
# Instrument: Movement Assessment Battery for Children (M-ABC2)

- ▶ Age Bands (4 6)
- Categories : Manual dexterity Aiming & Catching Balance
- Percentiles: <5<sup>th</sup>
   5 15<sup>th</sup>
   > 15<sup>th</sup>



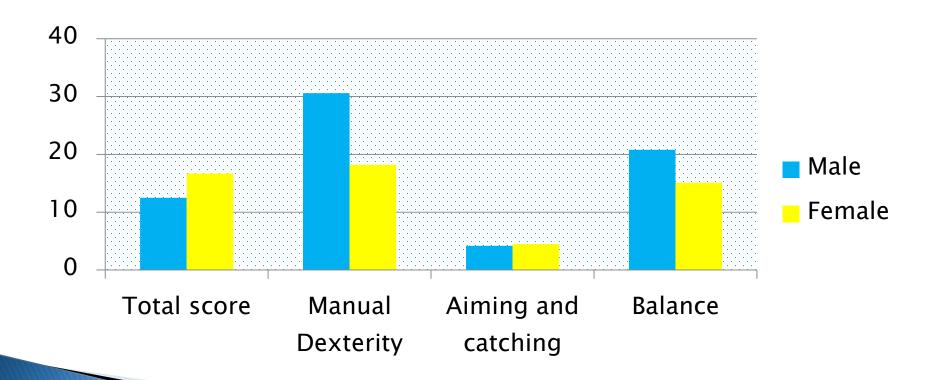


#### **RESULTS: Prevalence data**



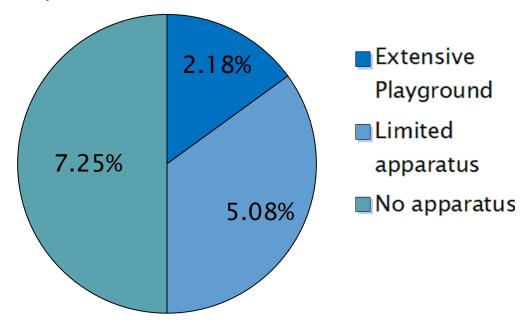


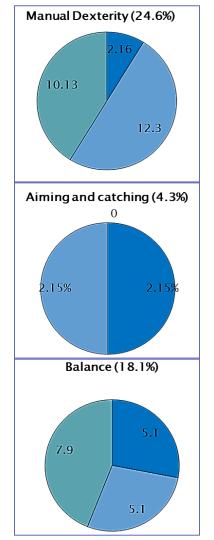
#### Results: Gender (below 15th %)



### Playgrounds (below 15th %)

Total impairment scores (14.5%)





No/limited playground







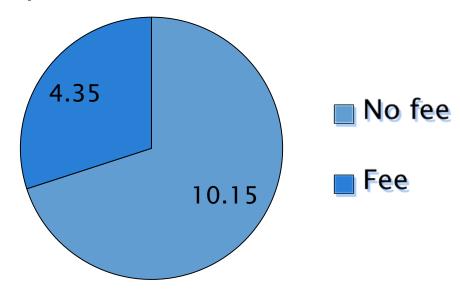
Extensive playground

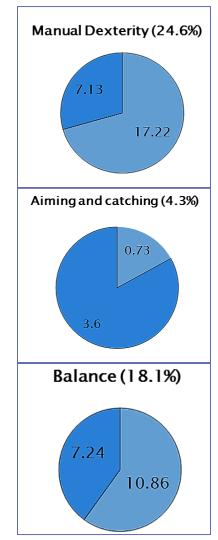




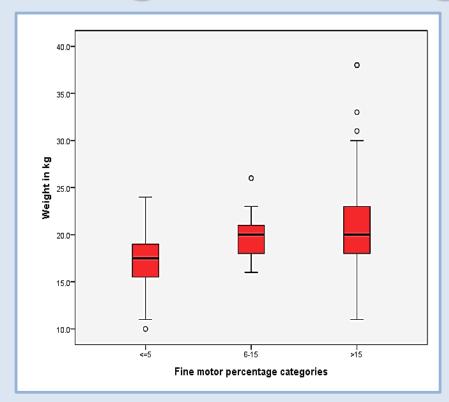
#### No fee vs fee

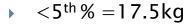
Total impairment scores (14.5%)



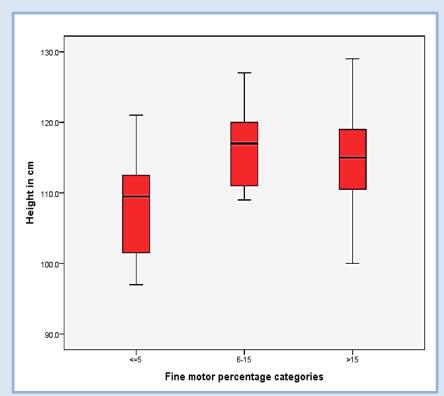


# Weight and height





$$> 15^{th}\% = 20kg$$



$$<5^{th} = 109.5 cm$$

$$> 15^{th}\% = 115$$
cm