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SFLV Oral Presenter

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Prof Dr. Dané Coetzee is currently a full professor in the School of Human Movement Sciences at the North-West University's Potchefstroom Campus. Since 2019 she is the program leader of the Kinderkinetics program, where her training responsibilities at the NWU include modules on undergraduate and post graduate levels as well as guidance to several masters and doctoral students. Additionally, as part of the Kinderkinetics team she has conducted workshops for teachers, coaches from disadvantaged groups and other Kinderkineticists to improve and promote the importance of early childhood development Prof Coetzee's research focus and interests are currently on early childhood development and early intervention, motor development, physical activity and physical fitness, visual stimulation and sport vision, ADHD, DCD, and the influence of motor delays on children's academic skills. Furthermore, Prof Coetzee has been representing South Africa as a member of the Future Leader Volunteer Programme (FLV) under the advisory of Prof Hans de Ridder and Prof Mingkai Chin since 2016. As a senior Future Leader Volunteer (FLV) and co-team leader she has been participating in numerous international conferences. Prof Coetzee is currently a NRF C2-rated researcher, and several national and international publications have been published from her pen.She also serves as reference for a national and international journal respectively, and as an external examiner. She furthermore distinguished herself as vice president of academics of the South African Professional Institute for Kinderkinetics (SAPIK) from 2013 to 2016, as president of SAPIK from 2016 to 2019, and now as immediate past president of SAPIK since 2019.

Relationship of BMI on the agility and strength skills of six-to-eight-year-old learners in the North West Province of South Africa: The PERF-FIT study

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BMI influences motor components that children use in physical and sport-related activities. This study aimed to determine whether there is a relationship between BMI and running speed- and agility and strength skills. This is a cross-sectional study that was conducted as part of the PERF-FIT research study. Ninety-seven learners, between the ages of six-to-eight-year-old part

take in this study. The Bruininks-Oseretsky Test of Motor Proficiency (BOT-2**)** was used as a measuring instrument that provided information on the running speed- and agility and strength skills. A Spearman correlation and partial correlation as well asa one-way variance analysis (ANOVA's) with a Tukey Post Hoc test was used to analyse the data. Statistical significance with moderate positive correlation was found in the whole group's running speed- and agility for the shuttle run (r=0.47, p=0.001). Furthermore, statistical significance with a trivial negative correlation was found in one-legged stationary hop (r=-0.31, p=0.002) and one-legged side hop (r=-0.22, p=0.032). For the whole group's strength skills, while statistical significance with small negative correlation were found with knee push-ups (r=-0.20, p=0.046) and v-ups (r=-0.20, p=0.052). However, trivial negative correlations were reported for the whole group. In the overall group 4.1% (n=4) were underweight, 76.3% (n=74) were normal weight, 10.3% (n=10) were overweight, and 9.3% (n=9) were obese. BMI was found to have a small negative correlation with six-to-eight-year-olds' running speed- and agility, and strength skills. This data can be utilized to construct more age-specific intervention programs focused at improving speed- and agility and strength skills development, as well as lowering BMI in preparation for later sport-specific skills.