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Topic: Community health and nutrition programs

Title: Validity of a physical activity questionnaire for South American Children and Adolescents: Results from the SAYCARE multicenter study

Presentation Type: Oral

Introduction: To evaluate the reliability of the physical activity (PA) questionnaire by multilevel modeling from the South America Youth Cardiovascular and Environmental (SAYCARE) study.

Methods: Data collection took place in 2015 in seven cities from six South American countries: Argentina (Buenos Aires), Brazil (São Paulo and Teresina), Chile (Santiago), Colombia (Medellín), Peru (Lima) and Uruguay (Montevideo). The sample involving a school-based convenient sample of 2100 children and adolescents (300 subjects/center), at the moment, 918 children and adolescents (43.7% of the sample) were assessed in five countries: Brazil (194), Chile (213), Colombia (220), Peru (207) and Uruguay (84). Before the data collection, the questionnaire has passed through a transcultural adaptation protocol. The SAYCARE physical activity questionnaire (47 questions) comprises three domains: leisure, transport and school environment, evaluated in accordance with the frequency, duration and intensity of activity. The adolescents (11-17 years) and the children's parents (until 10 years) answered the PA questionnaire. As reference method, PA was objectively measured by accelerometers during one week (at least 3 days), with a minimum of 8 hours recording/day used the week before applying the questionnaire.

Results: Using the questionnaire, children and adolescents spent 101 min/day doing PA. When measured with accelerometers, they spent 151.7 min/day doing PA. We

found The VC's was 0.35 and explains 21% city level variance with 52.4 min/day PA limits of agreement between both tools with multilevel analysis.

Conclusions: Although the study assessments are still in progress, the SAYCARE physical activity questionnaire appears to have an acceptable validity.