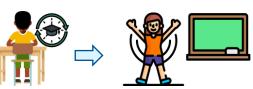
Effectiveness of a multicomponent intervention to promote physical activity levels during the school day: MOVESCHOOL study



Background

Increasing levels of physical activity (PA) and **reducing sedentary** time among adolescents during the school day is urgently needed as it will help to address the problems associated with physical inactivity (i.e. obesity and overweight).



Risk factor: Spanish secondary school students spent an average of 81% of the school day engaged in sedentary behaviors.

Objective **Examine the** effects During the school day **ACTIVE BREAKS** Multicomponent PHYSICALLY ACTIVE school-based **LESSONS** intervention **ACTIVE RECESS** PA Health On In adolescents Education

Cognition

Methodology

Study Design

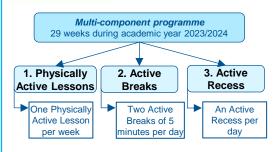


Quasi-experimental study

Participants



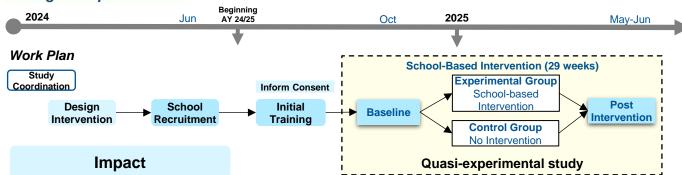
Intervention



Measures

- Physical activity and sedentary time: 7-days ActiGraph accelerometer.
 Sedentary time is also measured with YLSBQ (44).
- Health-related physical fitness: ALPHA Fitness Test Battery (45): Cardiorespiratory fitness: 20-m shuttle run; Strength: hand dynamometer and standing long jump. Also, BMI and waist circumference.
- Cognition: the executive functions using the NIH Examiner programme (47): Flanker task, Shifting task and N-Back.
- Academic indicators: School engagement: UWES-S-9 (50); Learning perception: questionnaire developed by Abella et al (51); Academic performance: reported by the schools in the 3 official evaluations; Mathematical fluency test: test number 6 of the Woodcock protocol (52).
- Psychological health: Health status: EQ-5D-Y-3L questionnaire (53).
- Motivational variables: Novelty: NNSS (55); Enjoyment and boredom: the Spanish version of SSI (56); School Climate: PACE-33 (57).
- Teachers' and students' perception about the suitability and the development of multicomponent program: using individual interviews and focus groups.
- Dietary patterns: KIDMED 2.0 (60).
- Sociodemographic: sex, age, birth date, and socioeconomic status: FAS III (59)

Design and procedure



This study will provide:

- Valuable and innovative guidance for the education community to promote the adoption of methods and strategies to increase physical activity levels.
- A set of innovative resources that are freely available, evidence-based, easy to implement and context-appropriate.