

Effects of the inclusion of physical activity in academic classes on educational indicators and health markers: the ACTIVE CLASS study

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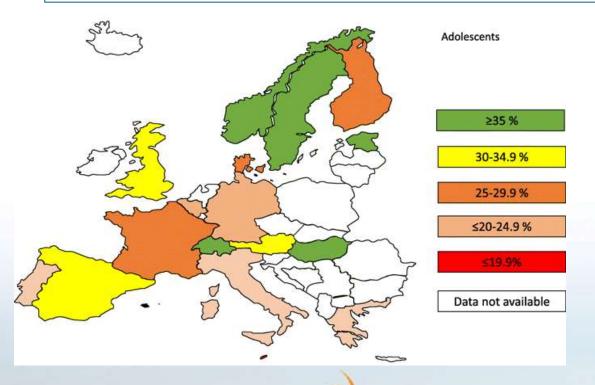




PA recommendations at school age:

≥60 daily minutes of MVPA







81% inactive adolescents (Hallal et al., Lancet. 2012)



71% inactive children and adolescents
(Steene-Johannessen et al., Int J Behav Nutr Phys Act. 2020)



63% inactive children and adolescents (Gasol Foundation, 2019)

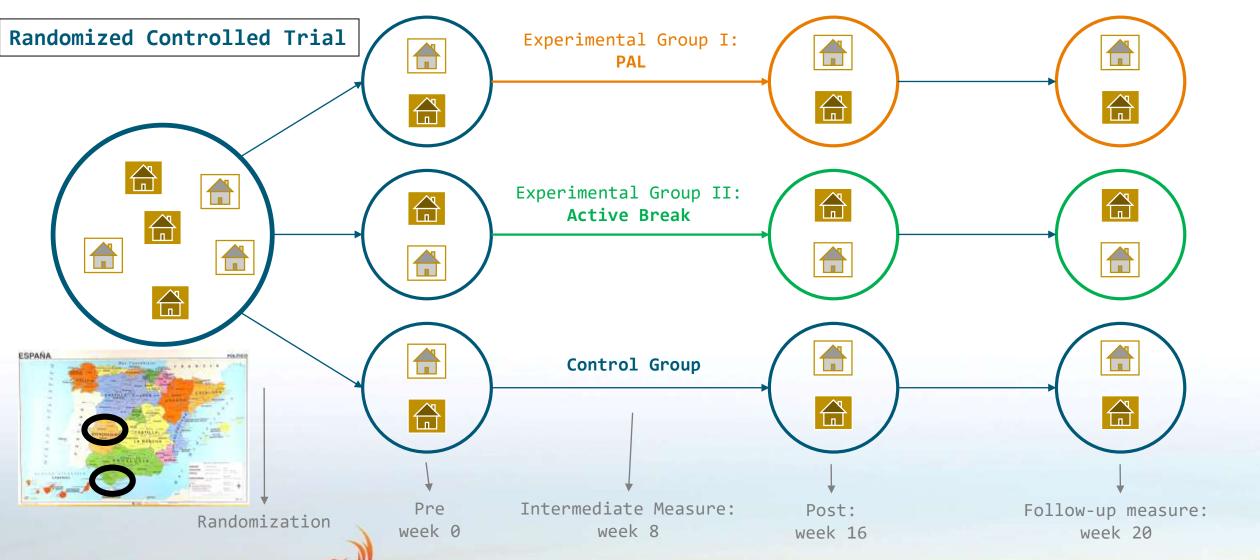




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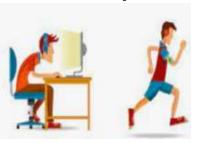






VARIABLES

Physical Activity and sedentary time



Academic Indicators



Cognition



Perception of learning



Fitness



Psychological Indicators



Motivational indicators



Qualitative Analysis











PROJECT DESIGN











1. Creation of battery of activities

2. Initial Seminar

3.Teacher Peer Revision

4. Bilateral meetings

5. Teacher creation

- 96 activities.
- For 9th and 10th year of secondary level.
- Grouped across curricula contents.

Code of the learning activity	M2S
Title of the learning activity	Group and do the exercise!
Type of activity (with movement or throughout movement)	Throughout movement
School subject/s (i.e. maths, languages, social sciences and/or natural sciences)	Maths
Educational stage (i.e. primary or secondary)	Secondary education
Learning content	Decimal numbers and fractions. Operations with fractions.
Place (i.e. indoor in the classroom, indoor out classroom, outdoor)	Indifferent
Material/s (when applicable)	1 piece of paper per student with a different fraction for each one.
Description	The teacher will give each student a card with a written fraction that will be held on the chest with the hands. The students will move freely around the space and at the teacher's signal they will be grouped according to the teacher's instructions (eg. groups of 3 people). Once they have been grouped, each group must make the least common multiple of the denominator of their fractions and prepare them to be able to make the total sum of the fractions of each group. The number of group members will be changed continuously, as well as the addition and subtraction of fractions.
Graphical representation (optional)	冷 東京 東京



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1. Creation of battery of activities

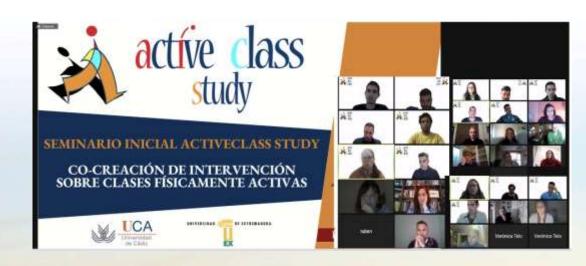
2. Initial Seminar

3.Teacher Peer Revision

4. Bilateral meetings

5. Teacher creation

- 16 teachers involved in the Project and attend to the seminar.
- 3 options days.
- 1h 30' duration.
- Goal: Explain the Project and ask for their involvement in the co-creation process.











1. Creation of battery of activities

2. Initial Seminar

3.Teacher Peer Revision

4. Bilateral meetings

5. Teacher creation

- Teacher Peer Revision.
- Each activity was revised by 2 teachers.
- Each teacher revised 12-13 activities.









1. Creation of battery of activities

2. Initial Seminar

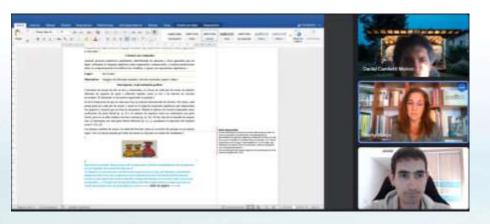
3.Teacher Peer Revision

4. Bilateral meetings

5. Teacher creation

- Bilateral meeting with teachers who revised the same activities.
- Goal: Share the comments of both teachers and made a qualitative review.













1. Creation of battery of activities

2. Initial Seminar

3.Teacher Peer Revision

4. Bilateral meetings

5. Teacher creation

 Teacher were encouraged to elaborated new activities by following the same structure as activities created by us.









Conclusion

- This project will be the first national empirical study about physically active lessons interventions, and it is expected to verify the positive effects of the intervention to promote healthy lifestyles in adolescents during school days.
- The Active Class study will contribute to create new resources that may be used by teachers in order to increase PA levels and, therefore, improve health during the school days.









Active Class Team

Coordinators





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Alberto Grao Cruces



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PhD Students



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