Author’s response to reviews

**Title:** Rationale and methods of the MOVI-da10! study – a cluster-randomized controlled trial of the impact of classroom-based physical activity programs on children's adiposity, cognition and motor competence

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**Author’s response to reviews:**

Thanks for your comments. We have made the modifications and corrections indicated to continue with the process for the manuscript entitled "Rationale and methods of the MOVI-da10! Study -a cluster-randomized controlled trial of the impact of classroom-based physical activity programs on children's adiposity, cognition and motor competence" (PUB- D-18-04072).

On the other hand, it is necessary to provide a clarification about the study under consideration. Under the project ‘Effectiveness of MOVI interventions in the improvement of adiposity, cognition and subclinical atherosclerosis markers through the increase of aerobic capacity’ (PI16/01919), funded by a grant of the Spanish Ministry of Economy and Competitiveness-Carlos III Health Institute, are nested two subprojects: i) MOVI-daFit!, a cluster randomized trial in children aged 9-11 years aimed at testing effectiveness of an after-school exercise intervention based on high intensity interval training (HIIT) on improving adiposity indicators, cognition, and subclinical atherosclerosis (ClinicalTrials.gov ID: NCT03236337); and ii) MOVI-da10!, a cluster randomized trial aimed at testing the effectiveness of a physical activity intervention in children 4-6 years old, that consist of 5-10 min breaks of exercise...
embedded in the teaching activities. The main outcomes of this trial are adiposity indicators, cognition, and motor competence (ClinicalTrials.gov ID: NCT03236363). Therefore, each of this trials have been conducted in different age group, test a very different intervention and they share some outcomes (adiposity indicator, cognition), but other do not (motor competences). Finally, each intervention has its own register in the clinical trials database.

Best wishes,

Abel Ruiz-Hermosa (corresponding author).