Author's response to reviews

Title: Abdominal obesity and low physical activity are associated with insulin resistance in overweight adolescents: A cross-sectional study

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Response to editorial comments of: MS: 2363688961302435 - Abdominal obesity and low physical activity are associated with insulin resistance in overweight adolescents: A cross-sectional study

1. **CONCLUSIONS:**

Please include a conclusions section on the main manuscript. This should state clearly the main conclusions of the research and give a clear explanation of their importance and relevance.

**R/ Conclusions were modified in the text, line 383:**

“Conclusions.

The results of the present study suggest that a WC >p90 and sedentary behaviour are associated with IR, lipid profile alterations, higher inflammatory status, and CVD risk amongst overweight adolescents. This two variables associated with HOMA, could be considered in the assessment of adolescents with overweight during the process of attention in health to detect those that required confirmatory laboratory tests of IR and to perform multidisciplinary interventions that modify the risk factors in adolescents with overweight, based on the eating habits and healthy lifestyles.

Future studies should also consider looking at a broad age range – from preschool through young adulthood - to determine how a proper screening including BMI, WC and PA evaluations might enable the early detection of features that promotes the development of chronic diseases like diabetes and CVD. This evaluation could have effects not only on the individual but on the health economy with the completion of paraclinical only young people who are at risk.”
2. METHODS:

Please format your Methods section according to the instruction for authors.

R/ Those aspects were corrected. We format Methods section according to the instruction for authors:
- Modified on line 26, in the abstract, the word “methodology by Methods”
- Modified on line 55, in the text, the word “introduction by Background”
- Modified on line 106, in the text, the word “methodology by Methods”
- Introduced on line 107, in the Methods: “Study design. The study is a cross-sectional study.”
- Introduced on line 108, in the Methods, the word “Participants.”
- Participants included: the setting, sample size estimations, the type of participants involved, exclusion criteria, a clear description of all groups and ethical approval and consent.
- Introduced on line 135, in the Methods, the word: “Measures.”
- The type of statistical analyses used is on line 201.

Sincerely yours

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