Reviewer’s report

Title: Association between physical functional capacity and lung function in obese children and adolescents

Version: 1

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Reviewer: Mohamed M Elloumi

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This cross-sectional study among 38 obese and 56 control individuals of both sex, aged ranging 05 to 17 years old sought to evaluate the association between physical functional capacity and lung function in obese children and adolescents. The authors of this study used the six-minute walk test (6MWT) and spirometry. This is a comprehensive and an interesting study; however several weaknesses should be mentioned that will be presented as following:

1) The abstract section
The aim of the study presented in page in page 2 was not align with the results and conclusion of the study.

2) Method section
The sample of study was very small and I am not sure how this data will be generalizable to determine a consensus about obesity repercussions in pulmonary function in a large cohort of obese children and adolescents. In statistic section, the authors should verify the normality of the variable before using nonparametric tests authors. Also, a stepwise analysis should be performed to select which data is added or not added to the analysis. The pubertal status is a determinant factor of spirometry parameters (consult the paper of Trabelsi et al 2007, Trabelsi Y1, Tabka Z, Richalet JP, Gharbi N, Bienvenu A, Guenard H, Buvry A. Spirometric values in Tunisian children: relationship with pubertal status. Ann Hum Biol. 2007 Mar-Apr;34(2):195-205); this factor is missing in this paper.

3) Result section
Figures were confused and slightly presented
Results presented in tables need not be repeated in the text

4) The discussion should be shortened. This section should comply with the aim of the study, not only an overview of the results of other research. Some grammatical errors are noted in the manuscript. Consequently, I don’t give this manuscript a high priority score.