Reviewer’s report

Title: Living-donor transplantation leads to a major improvement in physical functioning: an observational study on the impact on potential donors and their recipients

Version: 1 Date: 02 Feb 2019

Reviewer: Isabella Guzzo

Reviewer's report:

This a well written paper about physical functioning, physical activity and body composition in living donors and transplant recipients in the first post-operative year.

I just have few observations/questions

In body composition measurements section is reported that not all patients were in fasting state e.g. diabetics. Don't you think that you should have not included recipients with diabetes? You don't have donors with diabetes (not suitable)

What is the cardiovascular disease present in the 4 donors?
Don't you think that blood pressure and BMI of donors is too high?
Do you think that these characteristics of the donors are relevant for the following analysis?

Line 287 Immunoglobulin A as primary disease you should write IgA Nephropathy

Do you have any comment on the reduction of renal function in donors? GFR seems to me quite low

Line 305 in addition, not;

Sentence starting at line 369 is not clear

In discussion you don't need to repeat so many data of results but just to comment on them. You can probably shortened it.

What is on the y axis in future 4?

Please confirm that you have included your review in the ‘Comments to Author’ box?
As a minimum standard, please include a few sentences that outline what you think are the authors’ hypothesis/objectives, their main results, and the conclusions drawn. Your report should constructively instruct authors on how they can strengthen their paper to the point where it may be acceptable for publication, or provide detailed reasons as to why the manuscript does not fulfill our criteria for consideration. Please supply appropriate evidence using examples from the manuscript to substantiate
your comments. Please break your comments into two bulleted or numbered sections: major and minor comments.

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Yes

**Are the methods appropriate and well described to allow independent reproduction of experiments?**
Please state in the ‘Comments to Authors’ box below what you think are the strengths and weaknesses of the methods (study design, data collection, and data analysis), and what is required, if anything, to improve the quality of reporting

Yes

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If not, please explain in the ‘Comments to Author’ box below.

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- Are the statistical test(s) used in this study appropriate and well described?

  - Is the exact sample size (n) reported for each experimental group/condition (as a number, not a range)?

  - Are the description of any error bars and probability values appropriate?

  - Are all error bars defined in the corresponding figure legends?

  - Has a sample size calculation been included, or a description and rationale about how sample sizes were chosen?

Please can you confirm which of the following statements apply to your statistical assessment of the manuscript (Please include details of what the authors need to address in the ‘Comments to Author’ box):

I have been able to assess all of the statistics in this manuscript (please refer to checklist above)

**Are the conclusions drawn adequately supported by the data shown?**
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