Reviewer’s report

Title: Malnutrition impairs mitochondrial function and leukocyte activation

Version: 0 Date: 22 Sep 2019

Reviewer: Juliana Rodrigues

Reviewer's report:

The paper confirm an interesting topic that is related to the malnutrition inflammation syndrome. A major review in formal English is required. Many informal sentences are included in the text like: our results, we, in short. That should not be used in papers. And still I am confused if you should use the terms DRM + I and DRS-I, because either the DRS-I have biomarkers of inflammation high, so they are not inflammed? For me it seems the difference is the presence or not of a disease.

Abstract: Line 60: a total of 83 subjects, suggest to includ the word were included, just after the sentence.

Line 63: Do not need to includ the word mitochondrial parameters.

Line 67: "protein levels with respect to the NN group, differences that were less noticeable in the DRM-I 68 group. DRM+I was associated with a significant increase in inflammatory parameters (hsCRP, 69 and TNFα, IL6)", explain which differences.

Line 71: Suggest to change the phrase construction for "... decrease in mitochondrial oxygen consumption and glutathione".

Backgroud:
Line 96: Explain better the sentence "it has been demonstrated that disorders that lead to inadequate nutrition"

Line 112:"In addition, reduced dietary intake has been associated with an increase in leukocyte-endothelium interaction and, therefore, enhanced leukocyte migration", would be interesting if you explain the association between the dietary intake and leukocyte-endothelium interaction.

Many times, you use the word malnourished instead malnutrition. For example in line 120. Suggest to look all over the text and correct. Malnourished is different from malnutrition.

Line 122-123: Explain better. Can't understand what does this sentence want it to mean.

Line 128: Let it clear which consensus criteria is used.

Line 129: Suggest to change the word causing to leading

Line 141: Explain why Chronic Kidney Disease (CKD) patients and those with hepatic disease, were
not included if they are an inflammatory group. And also, you say it was not included CKD patients but in your results they appear. How?

In nutritional assessment: Explain with more details how loss of muscle mass and subcutaneous fat was evaluated?

Line 169: It is mid-upper arm muscle circumference (MUAMC) and not Arm muscle perimeter (AMP), the most used in the literature.

Biochemical determinations: You explain too much. I think it is necessary you say which method was used and thresholds, if you used to classify malnutrition.

Results
Line 255: Don’t need to say preliminary, it is not you already published 2 papers!

Line 258: Is numberS,

Line 261: chronic renal disease (2.0%), check exclusion criteria.

Line 276: "Surprisingly, DRM-I group showed increased levels of TNFα with respect to NN group." And How about DRM+I group?

Discussion: Need major improvement are necessary, many times it is used personal subjects and also you present again your results. You need to discuss it.

Line 310: You need to discuss it, not show results.

Avoid words: we have found, diagnosis, said, as we have confirmed.

Line 338: Did not understand what you mean with: "22% anorexia subjects" and where did you find this number.

Line 364: it is malnutrition not malnourishment

Limitations: It is necessary to be more formal, avoid to use very little, you may use a few instead. And also personal names.

Conclusion: It is not necessary the word overall.

Table 1.
#explain what is it? Use a label

## explain what is it? Use a label

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It is not necessary to explain the statistical test.
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