Reviewer’s report

Title: CD133+ CELLS ARE ASSOCIATED WITH ADIPOCYTOKINES AND ENDOTHELIAL DYSFUNCTION IN HEMODIALYSIS PATIENTS

Version: 0 Date: 23 Mar 2017

Reviewer: A Jaroszynski

Reviewer’s report:

This is a well written manuscript which reports on the relationships between CD133+ cell counts, some adipocytokines, parameters of endothelial dysfunction as well as atherosclerosis in a small group of HD patients.

The findings are interesting with novel data presented regarding the link between CD133+ cells and endothelial dysfunction. Moreover, the findings may have potential clinical applications. However, there are some issues that need to be addressed by the Authors:

Introduction:

The introduction is generally sound. However, though the hypothesis is outlined the rationale for selecting prominin1 as well as analyzing the relation/relations between CD133+ cell counts and endothelial dysfunction is/are not convincingly detailed in the introduction.

Methods:

There are several limitations of the methods as I will describe further.

- A major flaw is that there is no control group

- Diabetics were merely 10.3% of all HD patients. Are etiologies of chronic kidney disease presented in the paper similar to those of Turkish HD patients?

- Were there any exclusion/inclusion criteria?

- What was the definition of a carotid plaque definition in your study?

- The multivariate analysis has to be described in detail in the methods section.

Results:
Reporting of the results follows a logical order. The Authors should, however, explain why were clinical factors which were not significant in univariate analysis or were not evaluated in univariate analysis included into the multivariable model (for instance age and gender)?

Similarly, why factors that were correlated with CD133+ (leptin, resistin and TNF-alpha) were not included into the final model/models? It would be advisable to check the results using other multivariable models.

Discussion:

Discussion is sound and follows a logical sequence.

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

Yes

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.

No

Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.

Yes

Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

I am able to assess the statistics

Quality of written English
Please indicate the quality of language in the manuscript:

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