Reviewer’s report

Title: Left Ventricular Diastolic Dysfunction in Nonhuman Primate Model of Dysmetabolism and Diabetes

Version: 0 Date: 10 Aug 2015

Reviewer: Mehrdad Larry

Reviewer's report:

The authors present a novel and interesting study on cynomolgus monkeys. The idea, statistical analysis and results are logical and well-written. However, I suggest few improvements for its publication:

1. Animals considered in the diabetes group are worse on their lipid profile apart from their hyperglycemic state and definitions for diabetes. As they are older, dyslipidemic and more obese than the control group, perhaps it would be wiser to consider the group as animals with components of metabolic syndrome, as the authors correctly state "dysmetabolism" for the studied animals several times. However, we do not find much evidence and deduction for cardiac malfunction related to such lipid profile and the discussion is centered around effects of diabetes. The authors should either revise the discussion for dyslipidemia and cardiac effects or somehow perform additional analysis for their data which controls the confounding effects of lipid profile.

2. Definition of diabetes or suggested metabolic syndrome in cynomolgus monkeys should be more concise and have exact reference in the methods section.

3. Few grammatical mistakes are found which need corrections.

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

No

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

Yes

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:

Needs some language corrections before being published

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