

## **Author's response to reviews**

**Title:** The emerging role of dietary fructose in obesity and cognitive decline

### **Authors:**

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### **Author's response to reviews:**

Reviewer Charles Halsted (Referee 1)

We thank the reviewer for his positive critique and feedback in improving the article. We have made the following changes:

- 1) On page 3, we better defined the populations citing reference 10 and 11.
- 2) On page 4, reference 27 was updated. Reference 31 was also moved.
- 3) On page 5, we reworded the Freeman et al. study.
- 4) On pages 6-8, clarified the role of DMII, HTN, and HPL in studies assessing obesity and cognition.
- 5) The Stanhope referenced was added.
- 6) Expanded on the Agrawal and Gomez-Pinilla study.
- 7) The fructose content is now defined on page 14.

Reviewer Natalie Parletta (Referee 2)

We greatly appreciate the revision suggestions. Our changes are outlined below:

- 1) Background, line 6, typo corrected.
- 2) The description for AD was redefined.
- 3) On page 6, "weight" was changed to "waist".
- 4) On page 6, findings related to obesity and cognition in the elderly are better defined.
- 5) The co-variables were expanded on page 6.
- 6) The obesity in school aged children studies were expanded.
- 7) We tempered our statement to state a potential association on page 8.
- 8) The Whitehall study on page 8 was clarified.
- 9) The first sentence under Fructose were divided into two.
- 10) The 90% HFCS formulation was added to page 10.
- 11) The word "accounting" was deleted to page 10.

- 12) On page 11, we reworded the sentence on HFCS/sucrose and health risk.
- 13) On page 13, the Agrawal and Gomez-Pinilla study design was better defined. Also, the last sentence in this paragraph was removed as suggested.
- 14) "Only a few studies" was changed to "A recent population-based study" on page 13.
- 15) The heading on page 15 was changed to "Underlying mechanisms."
- 16) On page 17, the heart reference was removed.
- 17) The conclusion was revamped to best explain our thesis. The novel reference was also removed from this section.

Thank you.

Sincerely,

Shaheen E Lakhan and Annette Kirchgessner