Reviewer’s report

Title: Dietary Fiber Intake and Glycemic Control: Coronary Artery Calcification in Type 1 Diabetes (CACTI) Study

Version: 1 Date: 20 Mar 2019

Reviewer: Joshua Lewis

Reviewer's report:

The revised manuscript by Basu and colleagues entitled "Dietary Fiber Intake and Glycemic Control: Coronary Artery Calcification in Type 1 Diabetes (CACTI) Study" describes a prospective study of patients with T1DM or non-diabetic "controls". The study investigated the association between dietary fibre and glycaemic control using at baseline and 6 years later. Dietary fibre was inversely associated with glycated haemoglobin levels at baseline but not after 6 years in both the people with T1DM and the control population. The manuscript is well written and the analysis and interpretation are on the whole appropriate. The topic is of interest to researchers and the broader population.

One minor concern is the authors raise the possibility of trials of fibre supplementation as a seemingly unsupported comment in the abstract "Thus, at observed levels of intake, total dietary fiber reveals modest inverse associations with poor glycemic control. These findings warrant future trials of fiber supplementation in T1D management." and the conclusions "Further research is needed to evaluate whether therapeutic doses of fiber supplementation can improve glycemic control in individuals with T1D or non-diabetic individuals with habitual low fiber intakes." without raising this issue in the discussion (power, definition of habitual low fibre intake, feasibility etc). Given the modest association observed in the minimally adjusted cross-sectional analyses (weaker level of evidence) I suggest being more conservative.

Results page 9 line 118 remove "As expected".

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