Reviewer's report

Title: Effect of Glycemic Control on Soluble RAGE and Oxidative Stress in Type 2 Diabetic Patients

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Reviewer: Barry Hudson

Reviewer's report:

The authors study the relationship between glycemia and sRAGE levels in type 2 diabetic subjects. It is found that sRAGE levels are lower in diabetic compared to controls and appear to be inversely associated with sVCAM-1 levels. Whilst these results seem interesting, there are points the authors need to address:

In the current study, the authors find controls (n=20) compared to poorly controlled (n=42), but not well controlled (n=28) diabetic subjects, display differences in sRAGE levels (804, 600, and 634 pg/ml respectively). Given both the low sample number studied here, and the large variability in sRAGE levels even in healthy subjects (Brown et al (Ann Clin Biochem 2008) and Wittwer et al (Anticancer Res 2012)), the current study is most likely underpowered to detect the differences seen here. The authors need to increase sample numbers studied and perform power analysis.

Level of interest: An article whose findings are important to those with closely related research interests

Quality of written English: Acceptable

Statistical review: Yes, and I have assessed the statistics in my report.

Declaration of competing interests:

none