Reviewer’s report

Title: Glucose Intolerance and Gestational Diabetes Risk in Relation to Sleep Duration and Snoring During Pregnancy: A Pilot Study

Version: 1 Date: 24 February 2010

Reviewer: Audrey Saftlas

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- Major Compulsory Revisions

1. A central weakness of the study is its failure to administer validated self-administered sleep instruments to assess sleep disturbances. The question on snoring is particularly vague with categorized responses that lack context or points of reference. What does snoring “all of the time” mean as opposed to snoring “some of the time” or “a little of the time”? Does refer to snoring all night long or for some period on every night? How can women know the answer to this question if unless they are told they snore? What is the authors’ rationale to define non-snorers as those who snore some of the time or a little of the time? Given the lack of rigor with which this habit was assessed, I recommend limiting the paper to the data on self-reported average number of hours of sleep.

2. What is the rationale for grouping subject reporting 5-8 hours of sleep per average night? This is a large group of subjects with a wide range of sleeping hours. A priori, is 5-6 hours of sleep qualitatively different from 7-8 hours of sleep?

3. Is the current analysis that of a pilot study designed to address this research question or a secondary data analysis of a cohort study designed to address other research questions? This should be specified in the methods.

4. What mechanisms might explain the association of GDM with 10 and more hours of sleep?

5. Data were also collected on sleep duration prior to conception: how do these data compare with the pregnancy data on sleep duration and risk of GDM?

6. Did the authors consider gestational age at interview as a potentially confounding variable?

Level of interest: An article of importance in its field

Quality of written English: Acceptable

Statistical review: No, the manuscript does not need to be seen by a statistician.