Reviewer's report

**Title:** The association between lack of sleep, low vitality and impaired glucose tolerance: a Swedish cross-sectional study

**Version:** 1  **Date:** 20 February 2013

**Reviewer:** Juha Saltevo

**Reviewer's report:**

The basic question is important about the lack of sleep and impaired glucose metabolism. This study is a population based cohort, large enough to give an answer for this question.

**Major compulsory revisions:**

1. In this cohort IGT was found in 86 men and 127 women. IFG found in 94 men and 35 women. Why the authors did not study also this IFG cohort? This should be added or give a good explanation. Then there where 89 men and 69 women with type 2 diabetes, also this cohort is interesting in this context.

The problem with an OGTT is that if you repeat the OGTT afterwards you will find many different persons who have IGT, IFG is more stable. Do you have HBA1c measured?

If this other categories are added then this paper is more reliable and more interesting.

2. In table 1 NGT and IGT basic characteristics are shown, but no p-values. Please, add them. The explanation of abbreviations are missing (WHR, BMI etc.)

3. The conclusions of this study are not written clearly. They should be based on the results., Is the insufficient sleep associated with IGT also in women.? as you can understand from the first sentence in the conclusions.

**Minor comments:**

In the table 1 the authors show cholesterol values which do not differ between NGT and IGT patients. If you have s-trigl, HDL measured, please add them.

The writing of this article is acceptable, also statistics. This article is of importance in this field(after adding at least the IFG-data).

I do have no competing interests.

Based on this assessment I would like to see the answers and corrections to my major points. An then maybe to accept this paper.