

Reviewer's report

Title: Association between lowered endothelial function measured by peripheral arterial tonometry and cardio-metabolic risk factors - a cross-sectional study of Finnish municipal workers

Version: 1 **Date:** 10 June 2013

Reviewer: Virginia M. Miller

Reviewer's report:

Major Compulsory Revisions:

1. The reproducibility of a method in adolescents does not necessarily translate to better reproducibility in adults. Why not utilize both the RHI and F-RHI in this study as you would have both measurements at baseling and after the intervention and could make a statement about reproducibility in your population. Please publish both RHI and F-RHI values.

2. Since sex is a strong variable, why did you not analyze the F-RHI dicotomously by sex and the other vairables as continuous variables in the models? The various risk factors may play differently in women compared to men.

3. The range of women were peri- to post-menopausal but hormonal status was not taken in to account and sleep disturbances could be related to menopausal symptoms.

4. Please provide criteria for coding presence or absence of risk factor (range of values or cut off limits).

Discretionary Revisions:

Figure 1. Use a different symbol to differentiate men and women.

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:

I have no conflicting financial interests with this paper.