Reviewer’s report

Title: Validity of self-measured waist circumference in adults at risk of type 2 diabetes and cardiovascular disease

Version: 1 Date: 26 June 2014

Reviewer: Edward Janus

Reviewer’s report:

This paper describes very clearly the validity of self measured vs objective waist circumference measurements in adults at risk of type 2 diabetes and cardiovascular disease. There are no major problems with the question, methods, data, discussion and conclusions.

Major compulsory revisions
None

Minor essential revisions
1). Which T2D and CVD risk scores were used?
2). 140 had a risk lower than 10% - clarify was this for diabetes or for cardiac events and over what future period? You could state it like this example eg less than 10% probability of developing T2DM in the next 10 years
3). Can you give details about the ‘measure tape and detailed instructions “given to the participants for their self measured waist circumference”’. It’s important to know if tape used and instructions were the same as were used for the objective measurement.
4). Can you change the y axis on figure 1 to have -20 at the top and 10 at the bottom and change the wording to: Self measured minus objective... If you do that the main message about overestimation during self measurement becomes more obvious

Discretionary revisions
1). In methods include the age range of the study population
2). After the last sentence of the discussion I suggest if its correct “They could/would also have missed out on the intervention”

Some minor typing errors
Discussion Paragraph 3 – are associated WITH an increased BMI
Conclusion – last sentence ADVISE

Quality of written English: Acceptable

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

I have no competing interests