Reviewer's report

**Title:** Association of cardiovascular response to an acute resistance training session with the ACE gene polymorphism in sedentary women: a randomized trial

**Version:** 2  **Date:** 5 October 2012

**Reviewer:** Wiktoria Wojciechowska

Reviewer's report:

The idea to investigate the association of gene polymorphism and blood pressure response to resistance training is very interesting. However, the study has several limitations.

**Major Compulsory Revisions**

1) The basic limitation of the study it is very small number of participants. After division on subgroups, there are only several participants in each one. So that the association analysis of gene polymorphism with blood pressure or other phenotypes can't be reliable. Moreover study group included only women.

2) The authors did not even try to explain the mechanism via which ACE gene I/D polymorphism may influence blood pressure response to acute resistance training. It is not clear why the ACE gene polymorphism was chosen.

3) The authors summarized clinical characteristics in table one, however, they did not provide information about number of women in each subgroup.

4) In procedures section the authors have mentioned that caffeine, and sodium intake, were controlled, however they did not inform how it were done.

**Minor essential revisions**

1) In abstract abbreviation TE is not explained.

2) It is essential to mention, on which arm blood pressure was measured.

3) Spelling error ‘role group’ instead of ‘the whole group’ occur several times.

**Level of interest:** An article of insufficient interest to warrant publication in a scientific/medical journal

**Quality of written English:** Needs some language corrections before being published

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

**Declaration of competing interests:**
I declare that I have no competing interests.