Reviewer’s report

Title: Red wine consumption increases antioxidant status and decreases oxidative stress in the circulation

Version: 1 Date: 4 February 2007

Reviewer: Ting Sun

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Minor Essential Revisions (such as missing labels on figures, or the wrong use of a term, which the author can be trusted to correct)

The manuscript is on effect of moderate wine consumption on antioxidant status and oxidative stress in human.

Several comments listed as follows needs to be considered:

1. The analysis of glutathione, malondialdehyde, total antioxidant status, serum glucose and plasma lipid was not described in detail as how the analysis was done using a commercial kit, such as how much sample was added, how the result was obtained, and so on. It is suggested that the method part involving the use of the commercial kit was written in more detail, so that the reader can understand the method better.

2. Page 13, Table 2 indicated in the text was not found. Please correct the number of the listed Tables and Figures.

3. What are the two-factors used for the two-way analysis? It seems that the statistics analysis was three-way (young versus old, with and without consumption of wine at the same time, and before and after consumption of wine for each group), not two-way analysis, as shown in figure 2-4. For example, it was not which group was the control group data compared to? It is suggested that the part of “statistical analysis” on page 8 be written in more detail.

What next?: Accept after minor essential revisions

Level of interest: An article whose findings are important to those with closely related research interests

Quality of written English: Acceptable

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