Reviewer's report

Title: Olive Oil effectively mitigates Ovariectomy induced Osteoporosis In Rats

Version: 1 Date: 14 December 2010

Reviewer: Qiao-Yan Zhang

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Major Compulsory Revisions

1 In Tab 3, There are no significant difference between the TBT of sham group and that of olive-OVX group; but comparing with Fig. 1 and Fig.5, we can see the trabecular bone thickness of olive-OVX group is thinner than that of sham group, this should be explained.

2 The examination of sections of the livers (Fig. 6, 7 and 8) indicated that the OVX treatment lead to mononuclear cellular infiltration, and congested, dilated and thickened blood vessels in the portal areas. This phenomenon is occasional case, or exist in liver sections of every animal? Usually, OVX does not cause liver injury, and there is no inevitable relationship between liver injury and osteoporosis. Therefore, this results should be discussed thoroughly.

3 Though the level of plasma Ca and P could show the the condition of bone metabolism, but bone density, ALP, osteocalcin, TRAP are the leading indicator for osteoporosis. In this manuscript, the change of MDA and nitrates levels did not indicated that olive oil have the action of antiosteoporosis.

Minor Essential Revisions

1 The “a” in Tab.1, 2 and 3 were not clearly defined. It compared with “sham group” ? or olive-OVX group? What is control group? Sham or OVX group?

Level of interest: An article of limited interest

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

Statistical review: Yes, but I do not feel adequately qualified to assess the statistics.

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