Reviewer's report

**Title:** Protective effects of pomegranate (Punica granatum) juice on testes against carbon tetrachloride intoxication in rats

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**Reviewer:** Hulya Aksoy

**Reviewer's report:**

Authors investigated the protective effects of pomegranate juice on testes against carbon tetrachloride intoxication in rats and found that pomegranate juice augments the antioxidants defense mechanism against carbon tetrachloride-induced reproductive toxicity.

In manuscript there were some point for criticism. My notes follows:

**Major Compulsory Revisions**

- Authors stored prepared pomegranate juice at 4 ºC for no longer than 2 months. But storage condition of this juice was not suitable and this situation can cause degradation of constituents of juice. Furthermore, at the cited reference in manuscript (ref no: 15), the authors stated the storage conditions as -20 C. According to me, this is a big mistake.

- What is the mechanism for the increase of FSH and LH in pomegranate juice administration? In hypogonadism, increased FSH and LH was expected (*). In the light of different knowledge in the literature, these findings could be discussed.

- The Results section is somewhat confusing. It was mentioned that the supplementation of rats with pomegranate juice pre-CCl4 injection caused significant increase in GSH not only when compared with CCl4 group but also to control group. In other words, did juice increase GSH concentration in normal conditions? Results belong to FSH was not clear. Mean values of FSH did not differ from CCl4- treated group. Which group?

**Minor Essential Revisions**

- There are many grammatical and stylistic errors in the manuscript. For example intraperitoneally not interperitoneally.

- Any standart was not in abbreviations. For example pomegranate juice was abbreviated as P granatum but full name was used time to time veya through text.

- Why were parametric statistics used? But, case number was small. Were the results of a normal distribution?

- Were all p values <0.05??

- In conclusion, in its present form it is difficult to say that the present study adds significantly to the extensive literature already available in this area.

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

**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.