Review of: "Amifostine Has Chemopreventive Effects in a Mouse Skin Carcinogenesis Model"

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Potential competing interests: No potential competing interests to declare.

Dear Editor/ Author

I am honored to be invited to review this experimental study. This experimental study is well planned and interesting work. However in my opinion some corrections are needed in the study.

Best regards

- It would be more understandable if the experimental groups were formed as Group 1, Group 2.. instead of Experimental 1, Experimental 2 ..

- Conclusion part in the abstract section, only what can be suggested as a result of the study should be stated

- Keywords should be given as words rather than sentences.

- In the material method section, the references for the drug doses given should be stated.

- Histopathological studies seem insufficient. It would be better if the effects of amifostine were also shown on the tissue.

- More information on the efficacy of Amifostine should be given in the Introduction and Discussion sections. For exaple: ‘’ At the molecular level, amifostine affects the redox of sensitive transcription factors, gene expression, chromatin stabilization, and enzymatic activity. In cells, it plays a role in the regulation of cell growth and progression of the cell cycle. In addition to protecting normal cells from apoptosis, it is also effective in the proliferation of various cell lines… [Kang Y, Kai-Yan Y, Xing-Zhou R, Yi C. Amifostine protects bone marrow from benzene-induced hematotoxicity in mice. *Int J Toxicol.* 2007;**26**:315–323.]. ….. ‘’ The sulfhydryl moiety in its structure eliminates reactive neutrophils associated with DNA damage, which are formed due to the production of free radicals after chemotherapy or RT. (Culy CR, Spencer CM. Amifostine: an update on its clinical status as a cytoprotectant in patients with cancer receiving chemotherapy or radiotherapy and its potential therapeutic application in myelodysplastic syndrome. *Drugs.* 2001;**61**:641–684) In other words, DNA damage should be mentioned, and in this context, I recommend that apoptosis and fibrosis evaluation be made in tissues.

- I suggest that the authors review a study in which even hysterosalpingography, which is exposed to a minimal radiation dose, can cause damage to the ovarian tissue, and the protective effect of amifostine is investigated. ‘’ Can B, Atilgan R, Pala S, Kuloğlu T, Kiray S, Ilhan N. Examination of the effect of ovarian radiation injury induced by hysterosalpingography

on ovarian proliferating cell nuclear antigen and the radioprotective effect of amifostine: an experimental study. Drug Des Devel Ther. 2018 May 25;12:1491-1500. ‘’

- It would be better if the discussion section starts with a paragraph that briefly summarizes the results of the study.