



SDI Review Form 1.6

Journal Name:	Journal of Cancer and Tumor International
Manuscript Number:	Ms_JCTI_34832
Title of the Manuscript:	Effect of Ethanol Extract of Abrus precatorious Seed on Testosterone-Induced Benign Prostatic Hyperplasia in Adult Male Wistar Rats
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

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PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Compulsory REVISION comments	The authors tried to analyse the effect of Abrus precatorious seed extract on testosterone-induced rat BPH development. The data that presented included the serum hormonal levels, sperm characteristics, the absolute weights and the morphologies of the testis and prostate in different groups Their research is meaningful, however, it is also very primary, and quite a lot of things need to be provided in the future. 1. The mixture drug they used in the manuscript need to be described comprehensively and precisely. Since it is very important for the readers to repeat or follow their findings according to their isolated method, I would suggest that they could give all the important and necessary information used to extract Ethanol part instead of only cited a review reference. And they also should provide the components analysis to control the quantity and to show what compounds could be probably isolated from the extract. 2. The weights of prostate and testis should be calculated over the body weight. 3. The basal level of serum testosterone, sperm characteristics and weights of organs are further inhibited as well (table1 2 3). Is it indicated the side effect of the extract or the androgen-independent inhibition? 4. What is the relationship of BPH and testis problem? The authors showed a lot on testis morphology and sperm activities, while the prostate data are relatively not strong. Based on the title, I would suggest to focus on the effect of the BPH development. They should further investigate the androgen receptor expression in order to correlate with androgen signalling. Also the proliferation markers e.g	Prostate dihydrotestosterone level was equally assayed and presented Detailed extraction procedure will be included in the revised edition. Components analysis of the seed was not carried out but planned to be investigated in our further studies on the seed. Relative mean weights of the prostate and testis were calculated Reduction in prostate weight of basal and testosterone treated groups observed in our study seems to be androgen-independent and could be associated with anti-estrogenic activity of the seed extract. Low serum testosterone and poor sperm characteristics confirms antifertility and traditional contraceptive property attributed to the seed by literature Reduced production of testosterone as a result of testis problem can affect androgen-dependent BPH. Most previous studies carried out on the seed have been tailored towards its anti-fertility and contraceptive properties in males. Our study was aimed at unravelling the usefulness of the seed on prostate growth of adult males. BPH is mostly seen in aged males whom we believe can equally benefit from contraceptive property of the seed. However,



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	PCNA should be included by IHE or western blot to show more convinced evidence for suppression BPH. 5. The figures need to be re-organized and combined. All the HE staining for testis (Fig 1 to 6) can be combined to one figure, as well as the figures of prostate morphology. 6. The figure legends from figure 7 to 12 are mislabeled, since they are prostates not testis. 7. English description is poor and it needs to be hard improved.	further studies will be carried on the seed to investigate its effect on other markers of BPH
<u>Minor</u> REVISION comments		
<u>Optional/General</u> comments		