



SDI Review Form 1.6

Journal Name:	British Journal of Pharmaceutical Research
Manuscript Number:	2014_BJPR_13479
Title of the Manuscript:	Evaluation of Antidiabetic Activity of Combination of Trace Elements
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 <i>(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)</i>
<u>Compulsory</u> REVISION comments	The glucose tolerance test used should be described in methods Table 1, what does "standard" mean; is it glibenclamide? There is a contradiction between methods and table legend regarding how results are expressed. In methods it says that are mean$\pm$SD whereas in table legend it says that is mean$\pm$SEM. How are the results shown? Table 1 What does the asterisk means? Is it showing the difference versus the control animal or time 0? If it is vs control animal, same time, how can be the values in 30 min control significantly different from 30 min standard? 177.60+2.16 vs 177.66+1.76* How were the concentrations of trace elements chosen? Table 3 values in diabetic plus trace elements should be compared to values in diabetic animals, not only to controls Is it necessary to give values for 7,14, 21 and 28 days in blood glucose if only values for 28 days are given in the other parameters? Results should be shown as bar graphs instead of tables Tissue fixation seems to have problems. Please repeat staining with a better set of slices Pictures should include a bar that indicates the magnification of the image. Are all images in the same magnification? The procedure for fixing and staining the tissue should be included in methods	Glucose tolerance test has been described in methods line no 110-122. Corrected in table no -1. Corrected in line 196 of material and methods. Table 1 is corrected. Concentrations of trace elements have chosen on the basis of previous references. Table 3 corrected. For better explanation and compression to decreased blood glucose level. Corrected in table 1. The procedure for fixing and staining the tissue has been included in methods. Line 185-193.



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	Pictures from all groups should be included in one composed figure, not as independent figures. The identification of "a normal cellular population in the islets" should be done by immunohistochemistry for insulin and glucagon, not by HE. Authors should discuss on which are the mechanism that these trace elements are activating to improve some of the measured parameters. Since all treatments include selenium, what is the effect of selenium without any other trace element? Authors should discuss why vanadium and magnesium improve the diabetic state whereas chromium does not. Discussion is mainly a summary of results, this section should be rewritten References should be written in a homogenous style, please review. Please check for more up to date references regarding this topic.	It is not possible to make one figure because all represent different stage of treatment. HE had done on the basis of previous study on pancreas. Mechanism in detail have discussed in discussion part. Modulation in glycogen metabolism may be responsible for antidiabetic effect. It have discussed in discussion part. Corrected, many unnecessary parts have been deleted from discussion. References no 9, 10, 11, 12, 21, 22, 23, 24 and 27, 28 have been corrected. References are updated, Ref. No. 4, 5 and 8, 31
<u>Minor</u> REVISION comments	Define what BG means Please review English writing ethical issues-: Ether should not be used as an anaesthetic	Blood Glucose. Corrected. Corrected.
<u>Optional/General</u> comments		