



**SDI Review Form 1.6**

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| Journal Name:            | <a href="#">International Journal of Biochemistry Research &amp; Review</a>                           |
| Manuscript Number:       | <b>Ms_IJBCRR_27764</b>                                                                                |
| Title of the Manuscript: | <b>ROLE OF OXIDATIVE STRESS MARKER MDA IN TYPE 2 DIABETES MELLITUS ASSOCIATED WITH HYPERLIPIDEMIA</b> |
| Type of the Article      | <b>Original Research Article</b>                                                                      |

**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:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b><u>Compulsory</u></b> REVISION comments | <p><b>1. TBARS is an unspecific technique with several drawbacks, you should comment on this and the controls performed to account for it (measure the absorbance of diluted plasma alone).</b></p> <p><b>2. For how long the samples were stored before lipid oxidation was assayed? Was oxygen removed or an antioxidant added? This may be a concern since in frozen samples the rate of oxidation (as the rate of any other reaction) is lowered but it doesn't stop completely.</b></p> | <p>Yes sir I agree with your comment but despite the widely acknowledged limitations of the TBARS and in particular its lack of specificity, it continues to be reported as a true measure of MDA in clinical disease. Although it is proposed that the poor assay specificity associated with TBARS assays may lead to an overestimation of the levels of MDA in human plasma and other biological tissues and fluids, and this, in turn, may limit the likelihood of detecting true differences in the level of lipid peroxidation in clinical studies. The interfering TBARS compounds in human plasma may be attributable to the reaction of TBA with dienals and/or the formation of 2:1 barbituric acid adducts with MDA. Such interference is likely to be common in many MDA assays, but may be effectively resolved from the adduct of interest by application of the HPLC mobile-phase conditions reported. The adoption of HPLC techniques improves assay specificity and the sensitivity of MDA determination.</p> <p>We have a limitation to follow the accurate method as we donot have an HPLC instrument.</p> |



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|  | <p><b>3. You have to define better the DM patients: were they under treatment? The diabetes was well controlled? Did the treatment influence the results? If possible, you should present a table with the population characteristics (age, sex, blood pressure, etc).<br/>Are the factors previously mentioned influencing the results or making any bias?</b></p> <p><b>4. All the reagent providers and the equipment used are missing, you should add them.</b></p> <p><b>5. Define FPG and any other abbreviation used the first time you use it.</b></p> <p><b>6. Just one reference from 2008 in the draft has less than 10 years, you should update them.<br/>Also several references are missing. If an author is named (for example in lanes 30 and 46: "According to AUTHOR NAME" the adequate reference should be introduced.</b></p> | <p>We assayed fresh samples for MDA on the same day and did not use stored samples.</p> <p>The DM patients were on oral hypoglycemic drugs and we tested HbA1c for checking control of glucose levels in the DM patients. But we did not take into account the effect of hypoglycemic drugs on estimation of MDA and lipids.</p> <p>Table regarding population characteristics have been added in the manuscript.</p> <p>The names of reagent providers and equipment used has been incorporated in the manuscript as per your suggestion.</p> <p><b>Changes have been done as per your suggestion.</b></p> |
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| <b><u>Minor</u></b> REVISION comments   | <p>There are several typographic mistakes (additional and missing spaces), revise (mainly in the abstract section). Page 1, line 25 use lower case in Increased. In line 26, correct secretaory.</p> <p>Correct the symbol used in free radicals (use dot) in lines 39, 51 and so on.</p> <p>In the phrase: encompassing lines 106-110 you are describing the same feature twice.</p> <p>In table 1, you should revise the significant figures for MDA values.</p> <p>Lines 154-155, the phrase repeats the same result described in the previous paragraph and the use of the word "association" is unwise.</p> | <p>The mistakes have been checked and corrected as per your suggestions.</p> <p>Corrections have been made.</p> <p>MDA figures have been revised again based on our collected data.</p> <p>Corrections made.</p> |
| <b><u>Optional/General</u></b> comments |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                  |