



SDI Review Form 1.6

Journal Name:	International Journal of Biochemistry Research & Review
Manuscript Number:	2014_IJBcRR_10138
Title of the Manuscript:	Oxidative DNA damage in gestational diabetes mellitus: Correlation with antioxidants in an Iraqi cohort
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:

(<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)
<u>Compulsory</u> REVISION comments	In order to improve the quality of the manuscript, I would like offer the following suggestions Abstract 1. Please rewrite the aims. The aims should be written as "This study aimed to evaluate....." 2. The methodology should also briefly explain the study groups, sample collection and method of analysis. 3. Please write $P = 0.05$ rather than $P = .05$ Introduction Line number 60-64, page 3. "The current study aims to measure the markers of oxidative stress (as expressed by the level of 61 serum MDA and serum 8-OHdG) and correlate their levels with the antioxidants (as expressed by the 62 level of plasma reduced GSH) in an Iraqi cohort of women whom diagnosed with GDM. This study also aims to compare the extent of oxidative damage present in GDM women compared to non64 gestational diabetic women by measuring 8-OHdG levels, lipids, serum MDA and plasma GSH." Methodology 1. The age of gestation at the time of blood taking was not mentioned in the methodology. 2. The results mentioned about the total cholesterol and LDL-cholesterol levels but not in the methodology.	



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	3. $p < 0.05$ should be written as $P < 0.05$. Results 1. Please write $P = 0.05$ and $P < 0.001$ rather than $P = .05$ and $.001$ 2. Discussion 1. This study did not show the efficacy of using emerging biomarkers as a multi-marker approach to characterize GDM in the first trimester of pregnancy as the measurements were made at second trimester. The authors should do the measurement earlier i.e. when other established blood parameters e.g. fasting blood glucose could not detect the abnormalities. 2. The increased in 8-OHdG combined with increased MDA and a decrease in GSH does not provide any unique picture of the health state of the patient and cannot be used as an indicator for individualized treatment. The authors should do correlate between oxidative markers and more established markers used to monitor GDM e.g. HBA1c etc. Conclusion The study only demonstrated the correlation findings at second trimester and it is not fair to over conclude.	
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<u>Minor</u> REVISION comments		
<u>Optional/General</u> comments		

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