

Review Form 1.6

Journal Name:	Journal of Pharmaceutical Research International
Manuscript Number:	Ms_JPRI_76969
Title of the Manuscript:	Glucokinase Gene Mutations in Subjects with Gestational Diabetes Mellitus from Gaza Strip
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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Review Form 1.6

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	<p>Reviewer 1: In this study the authors performed a case-control study including 54 women with Gestational Diabetes Mellitus (GDM) and 42 controls across Gaza strip to evaluate the frequency of glucokinase (GCK) gene mutations for exons 7, 8 & 9 mutations at positions C.682A>G (p.Thr228Ala); C.895G>C (p.Gly299Arg) and C.1148C>A (p.Ser383X), respectively.of using polymerase chain reaction-restriction fragment length polymorphism (PCR-RFLP) methodology. The results showed that 20% GDM subjects harboured the exon 8 (895G>C) mutation and the genotype GC was significantly more frequent in case than in the controls (20% vs. 0.0%, P= 0.002[*]) and that the genotype (GG) was significantly more frequent in controls than in the case (100% vs. 80%, P= 0.002[*]). And the results showed that relationship between exon 8 p.Gly299Arg mutation and the biochemical parameters among the study population.</p>																									
Minor REVISION comments	<p>Comment1:</p> <p>Abstract Objective Added abbreviation of Gestational Diabetes Mellitus (GDM)</p> <p>Introduction complete the abbreviations</p> <p>Maturity-onset diabetes of the young (MODY)</p> <p>Study population Our study included forty-five (45) pregnant..</p> <p>Molecular analysis Genomic DNA was extracted from blood... Program of PCR-RFLP for the exons 7. 8 and 9</p> <p>The methods are clear. The results are presented in tables and the statistical study is well done. Overall, the study is well conducted. However, there some errors in the presentation of the tables. For example, in table 3, 4 the N. Odd ration OR</p> <p>Comment 3:</p> <p>It is necessary to calculate the OR for the polymorphism; correct the p for the exon 8</p> <table><tr><th>Mutation</th><th>Genotype</th><th>Controls (N=42) n (%)</th><th>Cases (N=45) n (%)</th><th>P-value</th><th>OR (IC 95%)</th></tr><tr><td rowspan="2">p.Thr228Ala (Exon 7)</td><td>AA</td><td>42 (100.0)</td><td>45 (100.0)</td><td rowspan="2">1.000</td><td rowspan="2"></td></tr><tr><td>AG</td><td>0 (0.0)</td><td>0 (0.0)</td></tr><tr><td rowspan="2">p.Gly299Arg (Exon 8)</td><td>GG</td><td>42 (100.0)</td><td>36 (80.0)</td><td rowspan="2">0.002[*] 1.3 10⁻⁷</td><td rowspan="2">0.8 (0.69-0.93) 1.45(7.6-∞)</td></tr><tr><td>GC</td><td>0 (0.0)</td><td>9 (20.0)</td></tr></table>	Mutation	Genotype	Controls (N=42) n (%)	Cases (N=45) n (%)	P-value	OR (IC 95%)	p.Thr228Ala (Exon 7)	AA	42 (100.0)	45 (100.0)	1.000		AG	0 (0.0)	0 (0.0)	p.Gly299Arg (Exon 8)	GG	42 (100.0)	36 (80.0)	0.002 [*] 1.3 10 ⁻⁷	0.8 (0.69-0.93) 1.45(7.6-∞)	GC	0 (0.0)	9 (20.0)	
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	<table><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>p.Ser383Ter (Exon 9)</td><td>CC</td><td>42 (100.0)</td><td>45 (100.0)</td><td>1.000</td><td></td></tr><tr><td></td><td>CA</td><td>0 (0.0)</td><td>0 (0.0)</td><td></td><td></td></tr></table> <p>Comment4:</p> <p>The relationship between exon 8 p.Gly299Arg mutation and the studied parameters among the study population; this results are not sufficient exploit between the polymorphism and biochemical parameters</p> <p>Comment5:</p> <p>In your results you reported that the concentration of glucose in mutation-positive (GC) case lower as compared to mutation-negative (GG) ones but there was no statistically sign difference Between mutation-negative (GG) cases and mutation-positive (GC) for all parameters (P> except for OGTT</p> <p>Discussion</p> <p>The discussion is very rich and well justified.</p>							p.Ser383Ter (Exon 9)	CC	42 (100.0)	45 (100.0)	1.000			CA	0 (0.0)	0 (0.0)			
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<u>Optional/General</u> comments																				

PART 2:

	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>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

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