

Review Form 1.6

Journal Name:	Journal of Pharmaceutical Research International
Manuscript Number:	Ms_JPRI_78057
Title of the Manuscript:	New Insight of Methylene tetrahydrofolate Reductase (MTHFR) C677T Gene Polymorphisms, and serum electrolytes in Cardiac Syndrome X Patients
Type of the 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	<p>The authors investigated the relationships amongst cardiac syndrome X, the gene mutation and the levels of the electrolytes. They found that "T alleles were significantly more frequent among our participant than C alleles". Although the association between the mutation and cardiac syndrome X has previously been described. If inclusion of electrolytes in such analysis has not been done before, then the analysis appears to provide new information.</p> <p>Main point 1: The mean age of the patients might be older than that of the control subjects, which may produce biased results in the comparisons of the electrolyte levels between the two groups; 2: This reviewer is unable to understand the way how the authors calculate the frequencies of the genotypes and alleles. In the calculation of the genotypes, in the 50 patients, 10 had CT and 1 had TT, while no patients had CC genotype. Totally, 11 patients had genotypes, what are the genotypes for the other 39 patients? In calculating the allele frequencies, C allele appeared, despite that it was missing in the genotype data. The patients had 100 chromosomes, with 12 T allele, which gives the T allele frequency as 12%, rather than the stated 54%. The same questions apply to the calculations in the control subjects; 3: The authors specify "electrolytes" in the manuscript, while the parameters were cholesterols and non-electrolyte metabolic factors, with magnesium as the only typical electrolytes. This must be clarified;</p> <p>Minor point The manuscript requires to be polished in writing. For example, only in the background section of the abstract: 1: "Cardiac Syndrome X (CSX "= Cardiac Syndrome X (CSX) ? 2: "a significant degree of morbidity. a significant morbidity ." = significant degrees of morbidity and morbidity. ? 3: "is highly recommended. " = is highly desirable. ? 4: "among Sudanese"= and Sudanese ?</p>	
Minor REVISION comments		
Optional/General comments		

PART 2:

	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)
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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