



SDI Review Form 1.6

Journal Name:	International Journal of Biochemistry Research & Review
Manuscript Number:	Ms_IJBCRR_31021
Title of the Manuscript:	The potential of blood gases and plasma ammonia levels for early detection of pediatric patients having metabolic disorders
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)
Compulsory REVISION comments	The title and objective 1. This study was to investigate the usefulness of blood gas and ammonia levels in the early diagnosis of metabolic disorders, but the metabolic disorders in the patients studied were not mentioned. This is no doubt a major fundamental flaw in this study. Clinical signs/symptoms cannot replace specific diagnosis. The results of the screening tests should be linked to specific metabolic disorders, this being the only way they can be used for early detection the suspected metabolic disorder. 2. What for instance, was the diagnosis in the patients that had elevated ammonia levels? 3. How was blood collected for blood gas analysis? This was not stated. 4. The discussions have not adequately addressed the findings from this study. On the other hand, a lot of reference is made to previous studies. The first 2 paragraphs of the discussions are not particularly focused on study findings. 5. Cases were supposedly age-and sex-matched with controls; how do we reconcile this with the number of cases (50) and controls (20)? 6. The discussion on the relationship of blood levels of ammonia with blood gas	1. I has mentioned the final diagnoses in the results section, although it should be confirmed with molecular and genetic study which will be done in future studies as placed in study limitations section, taking into consideration that the diagnosis of the majority of metabolic disorders in our country Egypt is so difficult and take long time with the rarity to reach the final diagnosis and such cases placed under the diagnosis of metabolic disorder with supportive therapy until they die except for few treatable metabolic disorders or for those taken into the scientific research. 2. The diagnosis in the patients that had elevated ammonia levels has been placed in the results section. 3. Blood collected for blood gas analysis on heparinised tubes using arterial blood samples from the radial or brachial or femoral artery and measured immediately by the blood gases analyzer as stated in the methodology section. 4. The first paragraph removed from the discussion and placed in the introduction, while the second paragraph was completely removed



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	components is not explicit. The relevance of the correlation graphs is not clearly explained. 7. The language needs to be improved upon to ensure that the intended message is well communicated to the target audience	from the paper. 5. Although the number of control 20 and the number of cases 50 but they were age and sex matched because there were non-significant difference regarding the mean age and regarding the male to female ration between cases and control group. 6. We have modified and explained it to be in a more clarified form . 7. The language has been corrected as much as possible as we are not native English speakers
<u>Minor</u> REVISION comments	1. Revealed is spelt as 'revealed' repeatedly 2. Computed tomography not 'tomography'	1. We have been correct it. 2. We have been correct it.
<u>Optional/General</u> comments		