



SDI Review Form 1.6

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| Journal Name: | Asian Hematology Research Journal |
| Manuscript Number: | Ms_AHRJ_66916 |
| Title of the Manuscript: | The relation between Glutathione S Transferase (GSTM1, GSTP1 and GSTT1) polymorphisms and clinical diversity of Sickle cell disease among pediatric Sudanese patients |
| 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/journal/10/editorial-policy>)



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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>Major language revision is required (mandatory).</p> <p>Some ethical issues (identified below, on Part 2), require clarification.</p> <p>Clinical variables (e.g. bone problems) should be unambiguously defined in the Methods section.</p> <p>Considering the differential gender distribution of the GSTM1 and GSTP1 polymorphisms, OR calculations should be adjusted for gender.</p> <p>Upon combined GSTM1/GSTT1 analysis, "present" and "null" categories are not defined. In which of these categories are mixed genotype patients (e.g. GSTM1 present + GSTT1 null) included?</p> <p>Both in the Results and the Discussion section, non-significant results are reported in the text and, more importantly, are referred to as "associations". Such non-significant results should be removed from the text or referred to as "suggestive trends" instead of "associations".</p> <p>The conclusion is often suggestive of a genotype association with increased risk, when the results reported suggest otherwise. This must be unequivocally corrected.</p> | |
| Minor REVISION comments | <p>All abbreviations employed (e.g. VOC, ACS) should be defined on their first use.</p> <p>Methods: patient selection criteria should be further detailed.</p> <p>Methods: on GSTP1 genotyping method description, confirmation of fragment length is required (shouldn't wild type (Ile/Ile) genotype correspond to one fragment only (176 bp)?).</p> <p>Methods: The referent class for OR calculations should be clearly identified.</p> <p>Results pertaining to GSTP1 null genotype, despite non-significant, should be reported as supplementary material. The same applies to all clinical variables considered for GSTT1 genotype but not included in Table 3.</p> | |
| Optional/General comments | <p>Sample size is modest, which increases the likelihood of type I errors and limits the interpretation and generalization of the results.</p> <p>Further corrections are provided in the paper as comments.</p> | |



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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) |
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| Are there ethical issues in this manuscript? | <p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p> <p>Yes. Since the study involved paediatric patients, additional ethical concerns apply: was informed consent obtained from the patients themselves and/or from their legal representatives? On the "Ethical consideration" sub-section, please clarify unambiguously whether the Ethics Commission approved the study.</p> | |

Reviewer Details:

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