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## REVIEWER'S REPORT

Manuscript No.: IJAR-59684

**Title: Phytochemical Characterization and In-vitro Evaluation of Antisickling, Anticoagulant, and Anti-inflammatory Activities of Bark Extracts from Enantia chlorantha and Alstonia boonei.**

**Recommendation:**
Accept as it is □□□□..
Accept after minor revision□√□□
Accept after major revision □□□□□
Do not accept (*Reasons below*) □□□

| Rating | Excel. | Good | Fair | Poor |
|---|---|---|---|---|
| Originality | | √ | | |
| Techn. Quality | | √ | | |
| Clarity | | √ | | |
| Significance | | | √ | |

Reviewer ID: JP085

**Reviewer's Comment for Publication.**
The manuscript investigates the phytochemical composition and in-vitro pharmacological activities of two medicinal plants traditionally used for sickle cell disease management. The topic is relevant and interesting. The study includes several biological assays to evaluate antioxidant, anti-inflammatory, antisickling, and anticoagulant activities.

**Strength**:

1. The study focuses on two medicinal plants with traditional use in sickle cell disease.
2. Different phytochemical groups are investigated.
3. Multiple pharmacological activities are evaluated.
4. Both plant extracts are compared in the study.
5. Standard reference drugs are included in some experiments.
6. The study may provide useful preliminary information for further research.
7. Ethical approval and participant consent are mentioned.

**Weakness**:

1. The number of blood donors and patients is not clearly mentioned.
2. The sample size for experiments is limited.
3. The statistical analysis needs more explanation.
4. The active chemical compounds are not clearly identified.
5. The proposed mechanisms are not experimentally confirmed.
6. The safety of the extracts needs further study.
7. The study is limited to in-vitro experiments.
8. Some parts of the discussion are lengthy and repetitive.

**Overall assessment:**

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The study has potential and provides preliminary information about the pharmacological activities of Enantia chlorantha and Alstonia boonei. However, important inconsistencies in the results, insufficient methodological details, and limitations in data interpretation need to be addressed before the manuscript can be considered for publication.

**Recommendation**: Manuscript accepted for publication after minor revision.