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REVIEWER'S REPORT

Manuscript No.: IJAR-59751

Title: Study of the Effects of the Epicarp of the Fruit of Kigelia africana on the Fertility of Male Mice

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 article investigates the effect of aqueous extract of Kigelia africana fruit peel on male fertility in mice. The study examines phytochemical composition, body weight, testicular weight, sperm density, sperm motility, sperm morphology and testicular structure.

Strength:

1. The study investigates an interesting and relevant topic related to male fertility.
2. It focuses specifically on the fruit peel of Kigelia africana, which is less studied than the whole fruit.
3. Phytochemical screening was performed to identify different secondary metabolites.
4. Different sperm parameters, including density, motility and morphology, were evaluated.
5. Testicular weight and histopathological changes were also examined.
6. Statistical analysis was performed using R software.

Weakness:

1. The study included only 10 mice.
2. Only one dose of extract was tested.
3. Hormone levels were not measured.
4. Antioxidant activity was not tested.
5. Testicular weight was reduced in the treated group.
6. Actual fertility was not confirmed through mating studies.
7. Histological results need more detailed analysis.

Overall assessment:
The study has potential scientific value, but major improvements are required in experimental design, reproductive safety evaluation, hormonal analysis and interpretation of results.

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Recommendation: Manuscript accepted for publication after minor revision.