

Review of: "Unravelling the Phytochemical and Pharmacognosy Contour of Traditional Medicinal Plant: Pterocarpus Marsupium Roxb"

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Potential competing interests: No potential competing interests to declare.

This manuscript, focused on the medicinal plant *Pterocarpus marsupium*, offers a comprehensive overview of its phytochemical properties and pharmacognostic profile. The depth of research and detailed examination of various pharmacological aspects highlight its significance in traditional medicine. The following comments aim to provide constructive feedback to further refine and enhance the manuscript. These suggestions are intended to broaden the scope of discussion, provide additional context, and improve the overall clarity and impact of the study.

1. The introduction provides a good overview, but it could benefit from a more explicit statement of the research gaps the review intends to address.
2. The methods for selecting and reviewing the literature could be more detailed, enhancing the transparency of the research process.
3. The botanical description is well-presented. Consider adding a brief comparison with similar species for clarity.
4. The taxonomic classification is helpful; however, discussing the evolutionary significance or comparing it with close relatives could add depth.
5. The detailed list of phytoconstituents is appreciated. Adding a discussion on how these constituents compare with other medicinal plants might provide valuable context.
6. The segmentation of pharmacological activities is well-organized. Integrating a comparative analysis with other medicinal plants in each section could offer a broader perspective.
7. While individual studies are well-cited, a synthesis of the findings across studies to draw broader conclusions would be beneficial.
8. The manuscript could be strengthened by a more detailed discussion on the mechanisms of action of the phytoconstituents.
9. Adding information about the use of *Pterocarpus marsupium* in traditional medicine practices worldwide could provide a more global perspective.
10. A section discussing the safety, potential side effects, and toxicity of *Pterocarpus marsupium* would be valuable for a comprehensive understanding.
11. The conclusion effectively summarizes the review. Including specific recommendations for future research areas could make it more impactful.

