

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

Anna Gavrilova¹

¹ Medical University Pleven

Potential competing interests: No potential competing interests to declare.

This thorough review explores the phytochemical and pharmacological aspects of current knowledge of *Pterocarpus marsupium* Roxburg. The paper is based on a sufficient amount of previous research studies and is logically structured and well-written. However, there are a few points that we hope will be helpful to the authors:

1. "Herbal plants" in the context of the first paragraph in the Introduction section should be replaced only by "Plants" or "Medicinal plants". There are herbaceous plants or herbs that usually do not develop "wood" tissue, but a lot of woody species present traditional medicines as well.
2. In the second paragraph, "The genus *Pterocarpus* is a large deciduous tree species of the angiosperm group (flower) from the Leguminosae family. ...of these (227), 46 species are accepted, and 30 species are included at the intraspecific rank." You should revise this text with the help of a botanical taxonomist; pay special attention to the underlined terms and expressions and make appropriate corrections to make the text logical and scientifically sound.
3. In the Botanical Description: "Its bark is..., with a width range of 10-12mm ..." – unclear statement.
4. Section 3, Taxonomic classification, is not necessary. However, if you insist on keeping the classification, you should give "Phylum" before "Infraphylum," and "Family" should come after "Order" and before "Genus".
5. After the first mention of the full botanical name '*Pterocarpus marsupium* Roxb.," the species should be mentioned as just "*P. marsupium*" without the author's name, which was already given.
6. In section Phytoconstituents, epicatechin and the following compounds are not primary phytoconstituents. They are secondary metabolites. Unclear terms like "aglicone" in the listing of specific compounds should be removed. In the title of Table 1, the name of the subject species should be given.
7. The English should be checked.
8. The following abbreviations are not introduced at the first mention – TNF- α , LDL, VLDL, HDL, *E. coli*, *A. niger*, *C. albicans*, *E. faecalis*, *S. typhimurium*, *E. aerogenes*, *S. dysenteriae*, *S. epidermidis*, *B. cereus*, *P. vulgaris*, *A. baumannii*, *C. freundii*, *M. morganii*, *P. aeruginosa*, *C. nurvala*, *O. sanctum*, LPO, GSH, SOD, SGOT, SGPT.
9. Reference [49] presents research with another representative of Fabaceae – *Alhagi maurorum* – and does not mention *Pterocarpus marsupium*.
10. Citations from Wikipedia, like reference [3], should be avoided.

