

# Review of: "In-Vitro Antibacterial Activity of some Ganoderma Species: A Review"

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**Potential competing interests:** No potential competing interests to declare.

The manuscript provides valuable information on the relationship between diabetic foot ulcers (DFUs) and Ganoderma species, highlighting the potential antimicrobial and wound healing benefits. Here are some suggestions to improve the manuscript:

## 1. Structure and Clarity:

- Consider organizing the manuscript into clearer sections, such as Introduction, Ganoderma Species and Their Properties, Antimicrobial Activity, and Conclusion. This will enhance the overall flow and readability.
- Provide clear headings and subheadings for different sections to guide the reader through the content.

## 2. Introduction:

- Expand the introduction to provide more context on the significance and prevalence of DFUs. Mention the challenges and complications associated with these ulcers.

## 3. DFU Causes and Complications:

- Elaborate on the causes of DFUs, emphasizing the importance of neuropathy, poor blood circulation, and other contributing factors.
- Discuss the complications of untreated DFUs in more detail, including the risk of cellulitis, osteomyelitis, and amputations.

## 4. Wound Healing Process:

- In the section discussing the wound healing process, provide a more detailed explanation of how diabetes affects normal wound healing and why it is crucial for individuals with diabetes to seek prompt medical attention.

## 5. Ganoderma Species Section:

- Introduce the Ganoderma species section with a brief overview of Ganoderma and its historical use.
- Consider including a table summarizing the different Ganoderma species mentioned, their properties, and potential applications.

#### 6. Antimicrobial Activity:

- Provide a more structured presentation of the antimicrobial properties of *Ganoderma* species against both Gram-positive and Gram-negative bacteria.
- Consider separating information on various extraction methods and their efficacy for better clarity.

#### 7. Methods of Extracting Bioactive Metabolites:

- Create a subsection specifically dedicated to discussing the methods used to extract bioactive metabolites from *Ganoderma*. This could include a brief explanation of each method's advantages and disadvantages.

#### 8. Conclusion:

- Summarize the key findings in a concise manner, reiterating the potential benefits of *Ganoderma* species in wound care for diabetic foot ulcers.
- Consider adding a call to action for further research or clinical trials to validate the effectiveness of *Ganoderma* in a clinical setting.

#### 9. Figures and Tables:

- Incorporate relevant figures to illustrate key points, such as the structure of *Ganoderma* species or the antimicrobial activity against specific bacteria.

#### 10. Language and Style:

- Review the language for clarity and coherence. Ensure that each sentence contributes to the overall understanding of the topic.
- Check for grammatical errors and typos.

In summary, By addressing these points, the manuscript can be enhanced in terms of structure, clarity, and depth, making it more accessible and informative for readers.