

# Review of: "Hepatoprotective Effect of the Ursolic Acid-Oleanolic Acid Mixture Administered Intragastrically in Mice with Liver Damage Induced by Anti-TB Drugs"

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## Hepatoprotective Effect of the Ursolic Acid-Oleanolic Acid Mixture Administered Intragastrically in Mice with Liver Damage Induced by Anti-TB Drugs

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The provided text seems comprehensive and well-structured, providing information about the work, its Qeios metrics, and the content of the study. However, here are a few suggestions for improvement:

### Introduction

- Clarity and Conciseness:** - Consider breaking down longer sentences for better readability.  
- Ensure that each paragraph focuses on a specific aspect or point to enhance clarity.
- Formatting:** - Check if there's a need for consistent formatting, especially with respect to the use of line breaks and spacing.
- Consistency in Terminology:** - Use consistent terminology throughout the article. For instance, there's a mix of "UA/OA mixture" and "UA/OA" in the text. Ensure uniformity.
- Grammar and Punctuation:** - Review punctuation, especially in longer sentences, to ensure clarity and correctness.
- Repetition:** - Be mindful of repetition. For example, the phrase "administered by i.g. route over 60 days" is repeated; you may consider rephrasing for variety.
- Citation Style:** - Confirm that the citation style aligns with the guidelines or standards for the specific journal or publication.

**Material and methods** However, I've noticed a minor issue in the last sentence, where you mention "Hydrogen Nuclear Magnetic Resonance (1H- RMN)." The correct abbreviation for Nuclear Magnetic Resonance is NMR, not RMN. So, it should be "Hydrogen Nuclear Magnetic Resonance (1H-NMR) analysis."

**In vivo assay** Consider using the standard abbreviation "g" for grams, so you may want to write " $24 \pm 2$  g."

**Hepatoprotector activity assay** is quite detailed and well-structured. However, there are a

couple of minor language and formatting suggestions:

Consider using standard abbreviations such as "mg/kg" consistently for clarity.

In the sentence "During the experimental period (60 days), BWG was recorded every third day," it might be clearer to spell out "body weight gain (BWG)" for the first mention.

The abbreviation "ANOVA" is often written in uppercase, so consider changing "GPC" to "GPC" was analyzed using ANOVA."

### **Histological Analysis:**

Ensure consistency in citation formatting. In the first paragraph, you cite Pérez-González et al.[6], and in the second paragraph, it's Pérez-González et al. (7,8). It might be clearer to maintain a consistent citation style, either using square brackets or parentheses for both.

**Results** section provides a clear overview of the obtained UA/OA mixture and the hepatoprotector effect in vivo. However, here are a couple of suggestions for clarity and style:

The abbreviation "i.g." for intragastric administration should be consistent throughout. It appears as "i.g." in the second paragraph but is written out as "intragastric" in the third paragraph. Choose one format and use it consistently.

Consider adding units to your measurements for clarity. For example, when discussing body weight increase, mentioning the units (grams) explicitly can enhance readability.

### **Figures and Table**

1. In the figure caption, there's a typo in "AU/OA"; it should be "UA/OA."
2. In the table caption, there's a typo in "AU/OA"; it should be "UA/OA."
3. The units for the weights in Table 1 are not explicitly mentioned. Ensure to include the units (e.g., grams) for clarity.
4. In the table caption, "s.e." is mentioned, but in the text, it's written as "e.s." Consistency in the abbreviation would be preferable.
5. In the table caption, "Group IV: anti-TB + AU/OA, 10 mg/kg; Group V: anti-TB + AU/OA, 20 mg/kg.kg" seems to have a typo. The ".kg" at the end appears to be a mistake.

Here are a few points to consider:

1. The figure caption refers to "Figure 2," but there is no description of the content or findings of Figure 2 in the provided text. Ensure that the text provides information or context for Figure 2.
2. In the table, the abbreviation "AU/OA" appears; it should be "UA/OA" for consistency with the rest of the document.
3. In the table, the header mentions "Centrilobular hydropic degeneration," but there are no entries under this category for any group. Confirm if this is intentional or if there might be missing information.
4. The table appears to have formatting issues, particularly in the alignment of the data under each category. Ensure proper alignment for clarity.

**Discussion** Overall, the text appears well-structured and detailed, but there are a few

grammatical and stylistic suggestions:

1. **\*\*Consistent Use of Abbreviations:\*\*** - Be consistent with the use of abbreviations. For instance, "UA/OA" is used sometimes with slashes and sometimes without. Choose one format and stick to it throughout the text.
2. **\*\*Clarity and Repetition:\*\*** - Consider rephrasing sentences that are a bit repetitive. For example, the phrase "This behavior was similar to that reported previously by GutiérrezRebolledo et al.,<sup>21</sup> when the UA/OA mixture (100 or 200 µg) was administered subcutaneously" could be streamlined for clarity.
3. **\*\*Grammar and Punctuation:\*\*** - Check for punctuation and grammar in sentences like "It should be noted that the liver is the key organ in the biotransformation of various substances, among which are anti-TB drugs, so the disorders and alterations in this organ are numerous and varied." Consider breaking it into two sentences for improved readability.
4. **\*\*Abbreviations Clarification:\*\*** - Provide explanations or clarify abbreviations like "BWG," "HPP," and "DL50" upon first use to ensure the reader understands.
5. **\*\*Formatting and Bullet Points:\*\*** - Consider using bullet points or subheadings for better organization, especially in the sections with multiple details about biochemical parameters and their effects.
6. **\*\*Phrasing:\*\*** - Simplify complex sentences for clarity. For example, the sentence beginning with "The combination of basic drugs..." is quite long and could be broken down for better understanding.
7. **\*\*References:\*\*** - Check the consistency of reference formatting. For instance, "GutiérrezRebolledo et al.,<sup>21</sup>" should have a space between "al." and the reference number.
8. **\*\*Clarify Statements:\*\*** - Some statements are a bit complex. Break down complex ideas into simpler sentences for easier comprehension.

**Conclusions** section seems concise and clear, but there are a few points to consider:

1. **Clarity:** - Clarify the phrase "administered by intragastric route" by specifying the exact method of administration (e.g., oral gavage) for precision.
2. **Consistency in Units:** - Maintain consistency in the use of units. For example, "10 mg/kg" is specified with units, but "60 días" lacks the unit. Ensure uniformity.
3. **Grammar and Style:** - Correct "días" to "days" for consistency in language.
4. **Grammatical Correction:** - Adjust the phrase "during 60 días" to "for 60 days" for grammatical correctness.
5. **Specify Results:** - Consider adding a brief mention of the specific results or findings that support these conclusions. This provides a more complete summary