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

Mohsina Patwekar[1]

1 Luqman College of Pharmacy

Potential competing interests: No potential competing interests to declare.

Dose-Response Relationship: Consider describing why 10 mg/kg and 20 mg/kg dosages of the UA/OA mixture were chosen. Explain whether a dose-response connection was investigated in the study and why these particular doses were chosen. More information on dosage selection would help to better understand the dose-dependent effects seen.

Mechanism of Action: Insights into the suggested mechanism by which the UA/OA mixture exerts its hepatoprotective effect against antituberculosis drug-induced damage would be helpful. Discussing potential UA/OA mixture-affected pathways or cellular targets could help to strengthen the study's mechanistic interpretation.
The UA/OA mixture was compared to silymarin as a positive control in the study. However, additional comparative study, such as dose-equivalence evaluations or statistical comparisons between the UA/OA groups and the positive control, could add depth to the assessment of the UA/OA mixture's hepatoprotective efficacy.

The UA/OA mixture was administered for 60 days during the research. Discuss why the treatment time was chosen and whether shorter or longer treatment periods were considered throughout the experimental design. Experimenting with varied treatment durations may provide insight into the ideal length for maximum hepatoprotective effects.