

PEER-REVIEW REPORT

Name of journal: *World Journal of Gastroenterology*

Manuscript NO: 67899

Title: MELATONIN PREVENTS OXIDATIVE STRESS, INFLAMMATORY ACTIVITY AND DNA DAMAGE IN CIRRHOTIC RATS

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05212434

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Poland

Author's Country/Territory: Brazil

Manuscript submission date: 2021-05-05

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-05-13 10:27

Reviewer performed review: 2021-05-18 11:17

Review time: 5 Days

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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Peer-reviewer statements	Peer-Review: [<input checked="" type="radio"/>] Anonymous [<input type="radio"/>] Onymous Conflicts-of-Interest: [<input type="radio"/>] Yes [<input checked="" type="radio"/>] No
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SPECIFIC COMMENTS TO AUTHORS

Ad 1 Yes Ad 2 Yes Ad 3 Yes Ad 4 Yes, but can be improve Ad 5 Yes Ad 6 Yes Ad 7 Yes, but can be improve Ad 8 Yes Ad 9 NA Ad 10 Yes Ad 11 Yes Ad 12 Yes Ad 13 Yes, but can be improve Ad 14 Yes, but can be improve I recommend to accept the manuscript after minor revision. There are only some points to correct: - please provide the list of abbreviations - please provide the number of ethical approval - introduction and discussion section need improvement; please provide information on how your results will translate into clinical practice - in discussion section please provide study strong points and study limitation section - please correct typos All abovementioned issues are crucial for the credibility of the results. The paper can be accepted only after addressing all the issues and another subsequent review. I recommend to accept the manuscript after minor revision.

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Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 03832839

Position: Editorial Board

Academic degree: PhD

Professional title: Assistant Professor

Reviewer's Country/Territory: India

Author's Country/Territory: Brazil

Manuscript submission date: 2021-05-05

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-05-13 07:59

Reviewer performed review: 2021-05-25 05:50

Review time: 11 Days and 21 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
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Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Peer-reviewer statements	Peer-Review: [Y] Anonymous [] Onymous Conflicts-of-Interest: [] Yes [Y] No
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SPECIFIC COMMENTS TO AUTHORS

The authors described “Melatonin prevents oxidative stress, inflammatory activity and DNA damage in cirrhotic rats”. It is a worthy effort to provide explore the effect of melatonin on rats with BDL-induced secondary biliary cirrhosis. However these are the observations made which needs to be addressed.

1 Title. Does the title reflect the main subject/hypothesis of the manuscript? YES

2 Abstract. Does the abstract summarize and reflect the work described in the manuscript? The abstract must be supplemented with numerical values for the tests performed.

3 Key words. Do the key words reflect the focus of the manuscript? Partly

4 Background. Does the manuscript adequately describe the background, present status and significance of the study? Partly (The research gap has not been highlighted in the manuscript)

5 Methods. Does the manuscript describe methods (e.g., experiments, data analysis, surveys, and clinical trials, etc.) in adequate detail? YES

6 Results. Are the research objectives achieved by the experiments used in this study? YES What are the contributions that the study has made for research progress in this field?

a. Melatonin possesses anti-inflammatory properties as demonstrated by lower IL-1 β levels and reduced NF κ B expression (The same has already been well established by different researchers as highlighted in the review PMID: 29104591).

b. Melatonin prevented cytogenetic damage, as well as strand breakage and DNA base oxidation.

7 Discussion. Does the manuscript interpret the findings adequately and appropriately, highlighting the key points concisely, clearly and logically? Are the findings and their applicability/relevance to the literature stated in a clear and definite manner? Is the discussion accurate and does it discuss the paper’s scientific significance and/or relevance to clinical practice sufficiently? The authors must



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made an attempt to provide the limitations and future prospects of this study and the conclusion section could have been better. 8 Illustrations and tables. Are the figures, diagrams and tables sufficient, good quality and appropriately illustrative of the paper contents? YES Do figures require labeling with arrows, asterisks etc., better legends? No

9 Biostatistics. Does the manuscript meet the requirements of biostatistics? YES 10
Units. Does the manuscript meet the requirements of use of SI units? YES 11
References. Does the manuscript cite appropriately the latest, important and authoritative references in the introduction and discussion sections? Does the author self-cite, omit, incorrectly cite and/or over-cite references? Total citations: 47; Self-citations: 5, citations within last 3 years (2019-2021): 08 12 Quality of manuscript organization and presentation. Is the manuscript well, concisely and coherently organized and presented? Is the style, language and grammar accurate and appropriate? YES 13 Research methods and reporting. Authors should have prepared their manuscripts according to manuscript type and the appropriate categories, as follows: (1) CARE Checklist (2013) - Case report; (2) CONSORT 2010 Statement - Clinical Trials study, Prospective study, Randomized Controlled trial, Randomized Clinical trial; (3) PRISMA 2009 Checklist - Evidence-Based Medicine, Systematic review, Meta-Analysis; (4) STROBE Statement - Case Control study, Observational study, Retrospective Cohort study; and (5) The ARRIVE Guidelines - Basic study. Did the author prepare the manuscript according to the appropriate research methods and reporting? YES 14
Ethics statements. For all manuscripts involving human studies and/or animal experiments, author(s) must submit the related formal ethics documents that were reviewed and approved by their local ethical review committee. Did the manuscript meet the requirements of ethics? YES