

Answers to the editor and the reviewer:

We thank the editors and reviewer very much for your professional and friendly comments on our review. Your comments are very professional and important, to which we have made targeted changes to the article. The details are as follows.

**The Reviewer's Specific Comments to Authors:** An excellent and pleasurable to read review, with very good English. Your review is systematic, but the Methods and search strategies and databases searched are not stated. Also, there is no PRISMA flowchart. I recognise that adding them would spoil the manuscript flow, but you could include them in a supplement.

We thank you for the constructive suggestion. As you mentioned, their inclusion would have spoiled the manuscript flow, so we did not include them either and provided the search strategies in the supplemental material as follows:

Supplemental material:

We conducted a targeted literature search for each subheading. We searched the PubMed/MEDLINE and OVID database for studies published from its inception to 31 of December 2021 using the following keywords that appear in the title/abstract: 'depression or depressive disorder or depression\* or MDD'; 'inflammation or inflammatory cytokines or neuroinflammation'; 'inflammasome or NLRP\* or AIM2 or Pyrin'; and 'nuclear receptor\*' or 'glucocorticoid receptor' or 'mineralocorticoid receptor' or 'estrogen receptor' or 'aryl hydrocarbon receptor' or 'peroxisome proliferator-activated receptor'. Searches were also limited to English-language studies. Abstracts were screened and full-text searches of the relevant studies were conducted. In addition, reference lists of previous review articles were reviewed as well as articles that met the inclusion criteria.

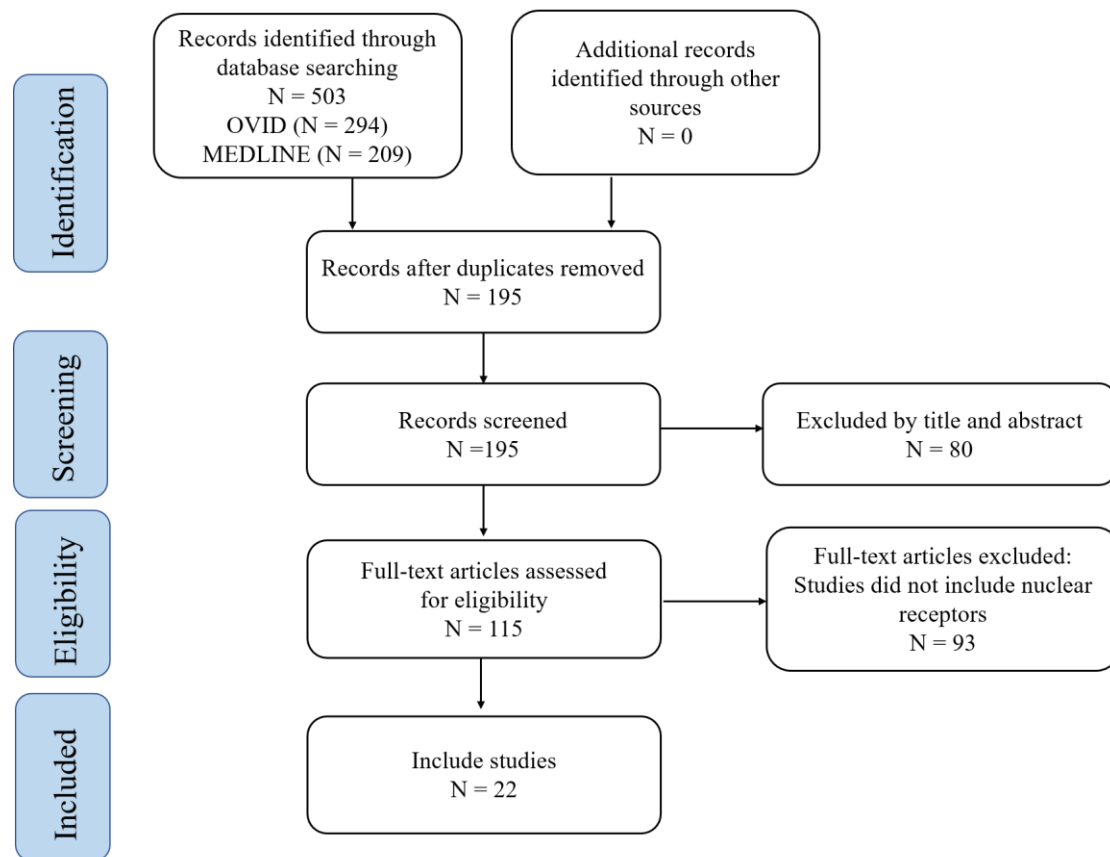


Figure 2: Flowchart of studies searched for review of nuclear receptors in the regulation of inflammasomes and depression

Few remarks: "caused by a chronic constriction injury (CCI) model" --> "caused by chronic constriction injury (CCI)." I realise the finding was in the context of an animal model, but the sentence would be better understood as I suggest, since a model does not cause. Later, "estrogen deficiency mice" --> "estrogen-deficient mice".

We agree with the reviewer and have revised the inaccuracies in our presentation, and based on this, we have read through the review again and corrected similar errors.

Answers to the Editorial Office's comments and suggestions:

### (1) *Science editor:*

1 Scientific quality: The manuscript describes a review of the nuclear receptors modulate inflammasomes in the pathophysiology and treatment of major depressive disorder. The topic is within the scope of the WJP.(1) Classification: Grade A; (2) Summary of the Peer-Review Report: This is an excellent and pleasurable to read review, with very good English. The questions raised by the reviewers should be answered; (3) Format: There is 1 figure;(4) References: A total of 148 references are cited, including 49 references published in the last 3 years;(5) Self-cited references:

There is 1 self-cited reference. The self-referencing rates should be less than 10%. Please keep the reasonable self-citations (i.e. those that are most closely related to the topic of the manuscript) and remove all other improper self-citations. If the authors fail to address the critical issue of self-citation, the editing process of this manuscript will be terminated; and (6) References recommendations: The authors have the right to refuse to cite improper references recommended by the peer reviewer(s), especially references published by the peer reviewer(s) him/herself (themselves). If the authors find the peer reviewer(s) request for the authors to cite improper references published by him/herself (themselves), please send the peer reviewer's ID number to editorialoffice@wjgnet.com. The Editorial Office will close and remove the peer reviewer from the F6Publishing system immediately.

2 Language evaluation: Classification: Grade A. A language editing certificate issued by MedE was provided.

3 Academic norms and rules: No academic misconduct was found in the Bing search.

4 Supplementary comments: This is an invited manuscript. The study was supported by National Natural Science Foundation of China. The topic has not previously been published in the WJP.

5 Issues raised: (1) The authors did not provide the approved grant application form(s). Please upload the approved grant application form(s) or funding agency copy of any approval document(s);

(2) The authors did not provide original pictures. Please provide the original figure documents. Please prepare and arrange the figures using PowerPoint to ensure that all graphs or arrows or text portions can be reprocessed by the editor; and (3) If an author of a submission is re-using a figure or figures published elsewhere, or that is copyrighted, the author must provide documentation that the previous publisher or copyright holder has given permission for the figure to be re-published; and correctly indicating the reference source and copyrights. For example, "Figure 1 Histopathological examination by hematoxylin-eosin staining (200 ×). A: Control group; B: Model group; C: Pioglitazone hydrochloride group; D: Chinese herbal medicine group. Citation: Yang JM, Sun Y, Wang M, Zhang XL, Zhang SJ, Gao YS, Chen L, Wu MY, Zhou L, Zhou YM, Wang Y, Zheng FJ, Li YH. Regulatory effect of a Chinese herbal medicine formula on non-alcoholic fatty liver disease. World J Gastroenterol 2019; 25(34): 5105-5119. Copyright ©The Author(s) 2019. Published by Baishideng Publishing Group Inc[6]". And please cite the reference source in the

references list. If the author fails to properly cite the published or copyrighted picture(s) or table(s) as described above, he/she will be subject to withdrawal of the article from BPG publications and may even be held liable.

6 Re-Review: Not required.

7 Recommendation: Conditional acceptance.

We thank the science editor for the great effort and comments. Our figure is an original figure. We have provided the original figure. We also have provided the funding agency copy of the approval document.

**(2) *Company editor-in-chief:***

I have reviewed the Peer-Review Report, full text of the manuscript, and the relevant ethics documents, all of which have met the basic publishing requirements of the World Journal of Psychiatry, and the manuscript is conditionally accepted. I have sent the manuscript to the author(s) for its revision according to the Peer-Review Report, Editorial Office's comments and the Criteria for Manuscript Revision by Authors.

We thank the editor-in-chief for the great effort and comment.