

PEER-REVIEW REPORT

Name of journal: *World Journal of Psychiatry*

Manuscript NO: 87800

Title: Meteorological factors, ambient air pollution, and daily hospital admissions for depressive disorder in Harbin: A time-series study

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06519526

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Doctor

Reviewer's Country/Territory: Germany

Author's Country/Territory: China

Manuscript submission date: 2023-09-21

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-09-26 09:13

Reviewer performed review: 2023-10-07 07:32

Review time: 10 Days and 22 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 Grade E: Do not publish
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
Creativity or innovation of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No creativity or innovation

Scientific significance of the conclusion in this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No scientific significance
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 checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous
	Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

I read this manuscript with great interesting. The literature has discussed the relationship between environmental factors and depressive disorders. It's well performed. The findings in this study are interesting. Four meteorological factors and six air pollutants were considered predictors in the time-series models. Air temperature, atmospheric pressure, wind speed, relative humidity, and nitrogen dioxide (NO₂), the air pollutant, have effects on the daily hospital admissions for depressive disorders, and interactions exist between meteorological factors and ambient air pollution. The samples in the study are so enough. The data are reasonably analyzed and interprets by the authors. The illustrations are relevant and informative, and the conclusion is an effective complement to the complex relationships of environmental factors.

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Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 07746774

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Assistant Professor, Research Assistant

Reviewer's Country/Territory: Italy

Author's Country/Territory: China

Manuscript submission date: 2023-09-21

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-09-25 07:13

Reviewer performed review: 2023-10-08 09:33

Review time: 13 Days and 2 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
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	Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

Accumulated evidence suggests that environmental factors play a role in altering serotonin levels, leading to depression, at the same time, Corresponding therapies have been developed and used. While many literatures have discussed the relationship between environmental factors and depressive disorders, the interactions between different environmental factors have rarely been considered. In this retrospective Study, authors investigated the effects of meteorological factors and air pollution on depressive disorders, including their lagged effects and interactions. I find this paper original and well written, and the number of samples in this study is up to standard, and the statistical method is correct, and the final result is also positive. I have really appreciated the discussion section and I do believe it would be of interest to the readers of World Journal of Psychiatry.