

PEER-REVIEW REPORT

Name of journal: *World Journal of Psychiatry*

Manuscript NO: 77622

Title: Magnesium may be the potential speciation as an effective therapy for Alzheimer's disease

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 02445242

Position: Editorial Board

Academic degree: MAMS, MBBS, MD

Professional title: Professor

Reviewer's Country/Territory: India

Author's Country/Territory: China

Manuscript submission date: 2022-05-10

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-05-11 09:23

Reviewer performed review: 2022-05-15 09:18

Review time: 3 Days and 23 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 Grade E: Do not publish
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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

This letter to the editor states that the physiological properties of magnesium create difficulties in magnesium supplementation for Alzheimer's dementia. Then it goes on to state (based on a single study) that "compared with other Mg²⁺ compounds (such as Mg²⁺ chloride, Mg²⁺ citrate, and Mg²⁺ gluconate), dietary intake magnesium-L-threonate could significantly increase Mg²⁺ levels in the brain." It is not clear what are the properties of magnesium-L-threonate that helps it ability to cross the blood brain barrier and enhance magnesium levels in the brain. The authors should provide a few more details about the study they have quoted so that this becomes clear to the readers.

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Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05271594

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Assistant Professor, Staff Physician

Reviewer's Country/Territory: Belgium

Author's Country/Territory: China

Manuscript submission date: 2022-05-10

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-06-04 15:50

Reviewer performed review: 2022-06-04 16:05

Review time: 1 Hour

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
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input checked="" type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
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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
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SPECIFIC COMMENTS TO AUTHORS

This letter points to some important points regarding magnesium and AD. I think the letter would benefit from a correction of the English language use at some points (for example it is not clear to me what they exactly mean with 'speciation' in the title). Also the exact questions to the authors of the manuscript they react to, could be formulated more clearly.