



PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 50508

Title: Allicin as Add-on Therapy for Helicobacter pylori: A Systematic review and Meta-analysis

Reviewer’s code: 00503623

Position: Editorial Board

Academic degree: MD,PhD

Professional title: Professor

Reviewer’s country: United States

Author’s country: China

Reviewer chose by: Artificial Intelligence Technique

Reviewer accepted review: 2019-08-01 13:39

Reviewer performed review: 2019-08-01 15:36

Review time: 1 Hour

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input checked="" type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer’s expertise on the
<input type="checkbox"/> Grade E: Do not	language polishing	<input checked="" type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input checked="" type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS



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This manuscript reviews the results of studies on the effect of garlic-derived compound, allicin, as an add-on treatment in Hp eradication triple (PTT) and quadruple (BCQT) therapies. Based on the data obtained from 8 RCTs involving 435 patients in the allicin group and 432 from the control group, it was concluded that Hp eradication and the rate of gastric ulcer healing were significantly higher in the allicin group than that of the control group. While, the authors suggest these positive results should be treated with caution, it should be noted that the previous numerous studies, conducted in the leading laboratories on the effect of garlic or its oil extracts on Hp eradication and ulcer healing, produced mostly discouraging results. Hence, it is quite possible that allicin-enriched preparation at the reported doses could improve Hp eradication and ulcer healing rate. Although, the paper is well presented, the sections Introduction and the Discussion are missing more relevant references discussing alternative treatments for Hp infection (see W.J. Gastroenterol. 20 (2014)1450 -1469 and Inflammopharmacology 27(2019) 203-2011). There is also a major, probably typographical, error on p. 2, first line under Introduction stating that H. pylori is a “Gram-positive” bacterium. Obviously, this requires correction by the authors. There are also numerous typos in the text (see “trerapy”).

INITIAL REVIEW OF THE MANUSCRIPT

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Name of journal: World Journal of Gastroenterology

Manuscript NO: 50508

Title: Allicin as Add-on Therapy for Helicobacter pylori: A Systematic review and Meta-analysis

Reviewer’s code: 00039368

Position: Editorial Board

Academic degree: DA,PhD

Professional title: Academic Research

Reviewer’s country: Estonia

Author’s country: China

Reviewer chose by: Artificial Intelligence Technique

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Reviewer performed review: 2019-08-13 11:21

Review time: 1 Day and 2 Hours

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input checked="" type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input checked="" type="checkbox"/> Accept	<input type="checkbox"/> Onymous
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This is a well written meta-analysis paper concerning the assessment of possible efficacy of allicin (extracted from garlic) in improvement of eradication rates in H. pylori treatment, healing of peptic ulcer and the remission of abdominal pain in randomized controlled trials. This study is based on analysis of 8 randomized controlled trials (RCTs) published from inception until June 2019. The authors give the extensive characteristics of selected studies and presented detailed description of inclusion and exclusion criteria applied to select literature and used the appropriate statistical methods. The present meta-analysis showed that allicin can improve eradication rates, healing of peptic ulcer rates, the remission of peptic ulcers and the remission of abdominal pain. However, the outcomes of eradication rates were very low, for healing rates and total remission rates of peptic ulcer was low. The authors have reviewed and analyzed sufficient amount of literature. The review is supplied with 7 Tables and 8 figures.

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