

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 39203

Title: Fourth-generation quinolones in the treatment of *Helicobacter pylori* infection: a meta-analysis

Reviewer's code: 00183445

Reviewer's country: Poland

Science editor: Ze-Mao Gong

Date sent for review: 2018-04-04

Date reviewed: 2018-04-09

Review time: 5 Days

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 type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input checked="" type="checkbox"/> Grade C: Good	polishing	<input checked="" 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 type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

This type of research is needed due to the increasing frequency of *H. pylori* resistance to metronidazole, clarithromycin, and levofloxacin. Recent studies showed that the fourth-generation quinolones can increase the drugs penetration to the bacterial cell,

improve the strength of activity and have better bioavailability. The Authors have performed meta-analysis on the basis of selected papers. They were focusing on eradication rates, side effects and compliance of the therapies based on fourth-generation quinolones when comparing with therapies using non-fourth-generation quinolones. They selected 10 studies including of 2198 patients, 1091 received the fourth-generation quinolone therapy. It was showed that fourth-generation quinolone therapy was more effective than other non-fourth-generation quinolone therapies and safer. However, the fourth-generation quinolones can significantly improve the eradication rate only in Europe but not in Asia. These are important studies of great importance for practitioners.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No

BPG Search:

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 39203

Title: Fourth-generation quinolones in the treatment of *Helicobacter pylori* infection: a meta-analysis

Reviewer's code: 00503623

Reviewer's country: United States

Science editor: Ze-Mao Gong

Date sent for review: 2018-04-04

Date reviewed: 2018-04-11

Review time: 7 Days

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
<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 type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

This study assessed the efficacy and safety of fourth-generation quinolones for *Hp*. eradication. Based on the meta-analysis data obtained with 10 studies which satisfied the selection criteria revealed that therapies containing fourth-generation quinolones can



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achieve a higher eradication rate for H. pylori infection, but the eradication rate remains poor. Hence, it is suggested that in the absence of other drug options or in cases of patient allergy to penicillin, such regimens might be considered as a rescue treatment based on antimicrobial susceptibility testing.

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BPG Search:

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- ☐ Plagiarism
- ☐ No

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 39203

Title: Fourth-generation quinolones in the treatment of *Helicobacter pylori* infection: a meta-analysis

Reviewer's code: 03476682

Reviewer's country: Thailand

Science editor: Ze-Mao Gong

Date sent for review: 2018-04-04

Date reviewed: 2018-04-12

Review time: 8 Days

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 type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input checked="" 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 type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input checked="" type="checkbox"/> Major revision	<input type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

Reviewer' Code: 03476682 ESPS Manuscript NO: 39203 Title: Fourth-generation quinolones in the treatment of *Helicobacter pylori* infection: a meta-analysis
Manuscript Type: Meta-Analysis Comments to Authors I have substantial concerns



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regarding this manuscript: 1. The overall structure of the manuscript is complete. 2. This is the manuscript that attempts to reveal fourth-generation quinolones for the treatment of *Helicobacter pylori* infection. The result show that, the fourth-generation quinolones had a higher eradication rate (81.8%) and a lower incidence rate of side effects (19.5%). This will provide a certain basis for clinical use of the fourth-generation quinolones and *Helicobacter pylori* eradication. 3. Methods Please describe any efforts to address potential sources of bias. Subgroup analyses: In the Europe subgroup, the pooled eradication rates of control group and experimental were 74.0% (347/469) and 89.1% (399/448) respectively by ITT analysis (OR=0.661; 95%CI: 0.447-0.977; P=0.000), and 78.5 % (347/442) vs 91.3% (399/437) respectively by PP analysis (OR=0.361; 95%CI: 0.240-1.016; P=0.000). You concluded that, the use of the fourth-generation quinolones in Europe can significantly improve the eradication rate. I think is missing the concept, because, 95%CI: include 1 (0.240-1.016). Please revise the result. 4. Discussion Discuss limitations of the study, taking into account sources of potential bias or imprecision. Discuss both direction and magnitude of any potential bias. 5. I have minor concerns regarding the English language used in this manuscript. 6. Please at the end of discussion summarizing the work/describing conclusions and pointing out the future directions in the field.

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[Y] No