

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 48751

Title: Review of current diagnostic methods and advances in Helicobacter pylori diagnostics in the era of next generation sequencing

Reviewer's code: 00717554

Reviewer's country: Netherlands

Science editor: Jia-Ping Yan

Reviewer accepted review: 2019-05-04 10:38

Reviewer performed review: 2019-05-04 16:03

Review time: 5 Hours

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 type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Accept	<input checked="" 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

I would like to mention the following comments: 1- Running title is missing. 2- It might be better to rewrite text: First Current: epidemiology information and resistance, diagnosis methods, treatments, and their advantages/disadvantages then available



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alternative methods and comparison with current methods. differentiation of treatment and chemical prophylaxis, Future: projection of future rates, diagnosis, treatments and their advantages/disadvantages. 3- Starting from line 306: What is [tw]? 4- Tables 2 and 3: PPI needs to be defined. 5- Table 3: four x daily: x means times? 6- Inclusion and exclusion criteria for search are missing. 7- Why only PubMed has been used and not other databases? Good Luck

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: 48751

Title: Review of current diagnostic methods and advances in Helicobacter pylori diagnostics in the era of next generation sequencing

Reviewer's code: 03260089

Reviewer's country: Italy

Science editor: Jia-Ping Yan

Reviewer accepted review: 2019-05-07 16:09

Reviewer performed review: 2019-05-07 17:03

Review time: 1 Hour

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 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

- "In general, treatment is recommended in case of detection of H. pylori infection. Among others, the most recent German S2k guideline proposes treatment even in patients with asymptomatic H. pylori gastritis [17]" Cite a paper that refers not only to

German, like a Megraud paper: "A 2016 panorama of *Helicobacter pylori* infection: key messages for clinicians." *Panminerva Med.* 2016 Dec;58(4):304-317. - Figure 1 is copied by Maastricht V consensus: di you have obtained the permission? - "associated costs for antibiotic therapy are listed in Table 2 and Table 3) Give more details about the sources of the costs - "Advances in *H. pylori* diagnostics in the era of next generation sequencing" The title refers to only a part of the review, choose a more comprehensive title - "The "gold standard method" for *H. pylori* detection is considered endoscopy in combination with histology and/or culture from the gastric biopsy." 13CUBT is the most accurate tool to detect *H. pylori* infection and is more cost-effective than endoscopy ("A 2016 panorama of *Helicobacter pylori* infection: key messages for clinicians." *Panminerva Med.* 2016 Dec;58(4):304-317.) - "However, it is not recommended to do a full phenotypic DST before administration of first-line treatment as i) an invasive endoscopy is required to obtain gastric biopsy specimens from the patient, ii) it is time consuming and costly, iii) less invasive, molecular based methods are also able to detect clarithromycin resistance that is momentarily the main cause of empiric treatment failure." Add the lack of availability - The next generation sequencing for the characterization of *H. pylori* should be the focus of the paper, instead there is a very long part dedicated to other aspects and few lines about next generation sequencing for the characterization of *H. pylori*: change the title and extend in the text the analysis of the papers searched on PubMed in this regard

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

- [] The same title
- [] Duplicate publication
- [] Plagiarism



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[Y] No

BPG Search:

[] The same title

[] Duplicate publication

[] Plagiarism

[Y] No

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 48751

Title: Review of current diagnostic methods and advances in Helicobacter pylori diagnostics in the era of next generation sequencing

Reviewer's code: 02535775

Reviewer's country: Turkey

Science editor: Jia-Ping Yan

Reviewer accepted review: 2019-05-04 10:07

Reviewer performed review: 2019-05-08 15:14

Review time: 4 Days and 5 Hours

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input checked="" 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 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 checked="" type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

To Authors, The article titled "Advances in H. pylori diagnostics in the era of next-generation sequencing" was reviewed. There are some minor mistakes needed correction in the text . Except these corrections, this article has been written clearly



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about the importance of H.Pylori and eradication. After corrections, this article deserves to be published. 1. In the 172. Line = “rapport” should be corrected as “REPORT” 2. Patoprazol (PPI) = It should be corrected as “ PANTOPRAZOL “ in Table 3. 3. [tw] abbreviations should be canceled in whole text and Tables 4,5 and 6.

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: 48751

Title: Review of current diagnostic methods and advances in Helicobacter pylori diagnostics in the era of next generation sequencing

Reviewer's code: 03720781

Reviewer's country: China

Science editor: Jia-Ping Yan

Reviewer accepted review: 2019-05-06 13:37

Reviewer performed review: 2019-05-11 09:50

Review time: 4 Days and 20 Hours

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 checked="" type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

In recent years, an alarming increase in antimicrobial resistance and subsequently failing empiric H. pylori eradication therapies have been noted worldwide, therefore, rapid and accurate determination of H. pylori's antibiotic susceptibility prior to the administration

of eradication regimens becomes ever more important. The costs for next-generation sequencing have consistently decreased over the last years with technology development. Considered next generation sequencing technologies may enable the implementation of genotypic DST prior to the administration of antimicrobial therapy for H.pylori eradication. I think this article titled “Advances in H. pylori diagnostics in the era of next-generation sequencing” is interesting and useful, but I think it is more perfect if the author spend more attention on studies using next generation sequencing for the characterization of H. pylori and treatment.

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: 48751

Title: Review of current diagnostic methods and advances in Helicobacter pylori diagnostics in the era of next generation sequencing

Reviewer's code: 00058340

Reviewer's country: United States

Science editor: Jia-Ping Yan

Reviewer accepted review: 2019-05-06 04:50

Reviewer performed review: 2019-05-11 19:06

Review time: 5 Days and 14 Hours

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input checked="" type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	<input checked="" 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 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 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

In this article: Advances in H. pylori diagnostics in the era of next generation sequencing the authors reviewed the gaps between current diagnostic practice (histology, rapid urease test, H. pylori culture, PCR and line probe assays) and new sequencing

technologies and their potential implementation in routine clinical laboratory settings in order to complement the currently recommended H. pylori management guidelines and subsequently improve public health. In the first part they reviewed currently available diagnostic methods for detection of H. pylori and its drug resistance and their implementation in H. pylori management. In the second part they focused on the use of next generation sequencing in H. pylori research. Comments: 1. This article is very well conceived, designed and executed. It provides the state-of-the-art information. 2. Figures are very informative and clearly state objectives and main findings. 3. Cor tips are missing 4. The paper may benefit from adding 3 references listed below 1. Shao Y et al. Antibiotic resistance of Helicobacter pylori to 16 antibiotics in clinical patients. J Clin Lab Anal. 2018 May;32(4):e22339. 2. Fallone CA, Moss SF, Malfertheiner P. Reconciliation of Recent Helicobacter pylori Treatment Guidelines in a Time of Increasing Resistance to Antibiotics. Gastroenterology 2019, Apr 15. pii: S0016-5085(19)35704-X. 3. Zanotti G, Cendron L. Structural Aspects of Helicobacter pylori Antibiotic Resistance. Adv Exp Med Biol. 2019 Apr 24. doi: 10.1007/5584_2019_368. .

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

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

BPG Search:

- ☐ The same title



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[] Duplicate publication

[] Plagiarism

[Y] No

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 48751

Title: Review of current diagnostic methods and advances in Helicobacter pylori diagnostics in the era of next generation sequencing

Reviewer's code: 02941657

Reviewer's country: Thailand

Science editor: Jia-Ping Yan

Reviewer accepted review: 2019-05-06 02:22

Reviewer performed review: 2019-05-15 06:33

Review time: 9 Days and 4 Hours

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 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

First, what are the original findings of this manuscript? What are the new hypotheses that this study proposed? What are the new phenomena that were found through experiments in this study? What are the hypotheses that were confirmed through



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experiments in this study? Second, what are the quality and importance of this manuscript? What are the new findings of this study? What are the new concepts that this study proposes? What are the new methods that this study proposed? Do the conclusions appropriately summarize the data that this study provided? What are the unique insights that this study presented? What are the key problems in this field that this study has solved? Third, what are the limitations of the study and its findings? What are the future directions of the topic described in this manuscript? What are the questions/issues that remain to be solved? What are the questions that this study prompts for the authors to do next? How might this publication impact basic science and/or clinical practice?

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: 48751

Title: Review of current diagnostic methods and advances in Helicobacter pylori diagnostics in the era of next generation sequencing

Reviewer's code: 00159305

Reviewer's country: Romania

Science editor: Jia-Ping Yan

Reviewer accepted review: 2019-05-04 14:55

Reviewer performed review: 2019-05-16 16:20

Review time: 12 Days and 1 Hour

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 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 type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input checked="" type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

To the authors, I read with interest your review , although as clinician I wonder when the third generation sequencing technologies for characterization of H pylori will become available in clinical practice! I have only few comments: 1. Please, follow WJG



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instructions and complete the submission: -key words are lacking -Core-tip is lacking
-take care of style of journal references. 2. Please, consider altering the title to reflect
that it is a review. 3. There are too many sub-headings which is not typically for most
review article. Please, consider changing that to a more conventional style.

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: 48751

Title: Review of current diagnostic methods and advances in Helicobacter pylori diagnostics in the era of next generation sequencing

Reviewer's code: 03008931

Reviewer's country: China

Science editor: Jia-Ping Yan

Reviewer accepted review: 2019-05-07 13:12

Reviewer performed review: 2019-05-19 06:59

Review time: 11 Days and 17 Hours

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 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

This work by Drs. Keller et al., provide a manuscript focusing on the advance in H. pylori diagnostics in the era of next generation sequencing, involving current treatment strategy, diagnostic, and future perspective. Authors searched related literature and try

to present latest advance this area. Numerous efforts have been made to provide patients with fast, reliable, accurate diagnostics on Hp infection and post-treatment surveillance, therefore further efforts in these areas will be a welcome. This work is therefore interesting with merit. The manuscript appears well wrote, but is also not in line with its title/main focus on diagnostics, instead, there are a lot of discussion on treatment strategy and sequencing for the characterization of Hp strains. It is advised that authors narrow down or reframe the manuscript to focus on the main purpose and present advances and conclusions to guild the area moving forward in diagnostic, especially those promising future methods. Minor typos and lengthy sentences are found throughout the text, which deserve authors' attention. Many of the references are old, newer one might be more attractive. The work may require revision and summarize research advance in Hp diagnostics to guide future efforts in the field. Authors are encouraged to revise and make manuscript more concise and up-to-date.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

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

BPG Search:

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