



## PEER-REVIEW REPORT

**Name of journal:** World Journal of Gastroenterology

**Manuscript NO:** 54735

**Title:** Novel application of the SpyGlass visualization system for working channel inspection: impact on the microbiological surveillance of patient-ready duodenoscopes

**Reviewer's code:** 05226098

**Position:** Editorial Board

**Academic degree:** MD, PhD

**Professional title:** Associate Professor, Director

**Reviewer's Country/Territory:** Japan

**Author's Country/Territory:** Taiwan

**Manuscript submission date:** 2020-02-18

**Reviewer chosen by:** Jia-Ping Yan

**Reviewer accepted review:** 2020-04-24 09:07

**Reviewer performed review:** 2020-04-24 09:57

**Review time:** 1 Hour

<b>Scientific quality</b>	<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 Grade E: Do not publish
<b>Language quality</b>	<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
<b>Conclusion</b>	<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
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer statements</b>	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 article showed an important message. In addition to the years of use of the duodenoscope, I would like you to clarify the results depending on the frequency of use of the duodenoscope.



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**Name of journal:** World Journal of Gastroenterology

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**Title:** Novel application of the SpyGlass visualization system for working channel inspection: impact on the microbiological surveillance of patient-ready duodenoscopes

**Reviewer's code:** 05086666

**Position:** Peer Reviewer

**Academic degree:** BSc, DPhil, MBBS, MRCP

**Professional title:** Doctor

**Reviewer's Country/Territory:** United Kingdom

**Author's Country/Territory:** Taiwan

**Manuscript submission date:** 2020-02-18

**Reviewer chosen by:** Jia-Ping Yan

**Reviewer accepted review:** 2020-04-24 12:23

**Reviewer performed review:** 2020-04-24 14:33

**Review time:** 2 Hours

<b>Scientific quality</b>	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input checked="" type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
<b>Language quality</b>	<input checked="" type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
<b>Conclusion</b>	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer statements</b>	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**

The authors present a study looking at a novel application of spyglass for the visualisation of the working channel of duodenoscopes as a means of identifying features that could be related to insufficient decontamination. There is some merit in the study as an observational study documenting the incidence of positive cultures and ATP levels in patient ready duodenoscopes, but I am sceptical about the importance of the associations between the spyglass findings and the microbiology. There are some methodological aspects and other clarifications that are needed before being able to interpret the results fully.

1. From the description in the methods it appears that this was a cross sectional study of 19 duodenoscopes. My understanding of what the authors did is that they assessed 19 patient ready duodenoscopes with 1. tests of ATP 2. tests for gram positive and gram negative culture and 3. Spyglass examination. However, figure 4 suggests that at least some of the duodenoscopes were assessed more than once. These results are not presented fully.
2. Table 1 indicates that the number of samples taken for culture ranged from 0 to 34 so it is not clear whether the study was purely a cross sectional study or a longitudinal study and why there was this variation in the number of samples taken varies between the instruments.
3. The study is so small that it is very difficult to draw any conclusion from it. All the endoscopes tested with spyglass had at least one abnormal finding. While there was an association of positive cultures with fluid and debris, I would be interested to see if there was also an association of negative cultures with fluid and debris.
4. The authors state that according to FDA guidance instruments should be send to the manufacturer for checking annually. To know whether the scopes that were being assessed in this study were truly patient ready we need to know whether the authors follow this guidance at their centres, particularly for the instruments that are older than 1 year old.



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**Title:** Novel application of the SpyGlass visualization system for working channel inspection: impact on the microbiological surveillance of patient-ready duodenoscopes

**Reviewer’s code:** 03477763

**Position:** Peer Reviewer

**Academic degree:**

**Professional title:**

**Reviewer’s Country/Territory:** Turkey

**Author’s Country/Territory:** Taiwan

**Manuscript submission date:** 2020-02-18

**Reviewer chosen by:** Jia-Ping Yan

**Reviewer accepted review:** 2020-04-25 16:53

**Reviewer performed review:** 2020-05-06 01:02

**Review time:** 10 Days and 8 Hours

<b>Scientific quality</b>	<input checked="" type="checkbox"/> Grade A: Excellent [ ] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
<b>Language quality</b>	<input checked="" type="checkbox"/> Grade A: Priority publishing [ ] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
<b>Conclusion</b>	[ ] Accept (High priority) <input checked="" type="checkbox"/> Accept (General priority) [ ] Minor revision [ ] Major revision [ ] Rejection
<b>Re-review</b>	[ ] Yes <input checked="" type="checkbox"/> No
<b>Peer-reviewer statements</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes <input checked="" type="checkbox"/> No



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#### **SPECIFIC COMMENTS TO AUTHORS**

I congratulate the authors for Novel application of the SpyGlass visualization system for working channel inspection: impact on the microbiological surveillance of patient-ready duodenoscopes.



## RE-REVIEW REPORT OF REVISED MANUSCRIPT

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**Academic degree:** BSc, DPhil, MBBS, MRCP

**Professional title:** Doctor

**Reviewer's Country/Territory:** United Kingdom

**Author's Country/Territory:** Taiwan

**Manuscript submission date:** 2020-02-18

**Reviewer chosen by:** Jie Wang

**Reviewer accepted review:** 2020-05-18 08:35

**Reviewer performed review:** 2020-05-18 09:21

**Review time:** 1 Hour

<b>Scientific quality</b>	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input checked="" type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
<b>Language quality</b>	<input checked="" type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
<b>Conclusion</b>	<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
<b>Peer-reviewer statements</b>	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



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The authors have made some revisions to the manuscript and this has made it easier to follow the experimental design. There is one area that I am still concerned about regarding the importance of debris and fluids and their association with positive cultures. 1. The authors have looked at the correlation coefficients with negative cultures and have provided this in their response to reviewers. This should be added in the manuscript. This will strengthen their argument that the presence of fluid and debris is associated with positive cultures but not negative cultures. 2. There are two cases where no samples were taken for culture. These data should be excluded from the analysis and the authors should state that in the manuscript. 3. The effect of the number of samples taken for culture has not been examined. More than 20 samples were taken for culture from 4 duodenoscopes. 50% of those had +ve cultures. The rate of positive cultures in duodenoscopes that had less than 20 samples taken was 2/12 (17%). The number of samples taken for culture in the longitudinal study is therefore an important factor that determines culture positivity. To be able to fully understand the whether debris and fluids determine culture positivity the authors should conduct a multivariate analysis and include the number of samples taken as a covariate.



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**Reviewer's Country/Territory:** Japan

**Author's Country/Territory:** Taiwan

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<b>Scientific quality</b>	<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
<b>Language quality</b>	<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
<b>Conclusion</b>	<input type="checkbox"/> Accept (High priority) <input checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Peer-reviewer statements</b>	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



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This article has been properly revised. Please edit it by a native speaker. There are no other comments.