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Name of Journal: *World Journal of Gastrointestinal Endoscopy*

ESPS Manuscript NO: 21977

Manuscript Type: Minireviews

21977-Answering reviewers

Name of journal: World Journal of Gastrointestinal Endoscopy

ESPS manuscript NO: 21977

Title: Raman spectroscopy for early real-time endoscopic optical diagnosis based on biochemical changes during the carcinogenesis of Barrett's oesophagus

Reviewer's code: 02445538

Reviewer's country: Japan

Science editor: Shui Qiu

Date sent for review: 2015-08-30 15:55

Date reviewed: 2015-10-24 10:44

COMMENTS TO AUTHORS

This is a review article on Raman spectroscopy with a lot of potential for real-time diagnosis of non-dysplastic or high-grade dysplastic/adenocarcinoma of Barrette's esophagus. I enjoyed reading the paper. We hope early practical use of this modality in the clinical.

Answers to reviewers

An automated on-line Raman spectral diagnostic system has been used in the clinical.

Name of journal: World Journal of Gastrointestinal Endoscopy

ESPS manuscript NO: 21977

Title: Raman spectroscopy for early real-time endoscopic optical diagnosis based on biochemical changes during the carcinogenesis of Barrett's esophagus

Reviewer's code: 00183658

Reviewer's country: Thailand

Science editor: Shui Qiu

Date sent for review: 2015-08-30 15:55

Date reviewed: 2015-10-25 18:37

COMMENTS TO AUTHORS

The article is aimed to review the Raman spectroscopy for early real-time endoscopic optical diagnosis. The title is "Raman spectroscopy for early real-time endoscopic optical diagnosis based on biochemical changes during the carcinogenesis of Barrett's esophagus".

1. This procedure needed an experienced endoscopist. It could not apply in the

community hospitals. 2. Please add more details of the limitations of Raman spectroscopy for early real-time endoscopic optical diagnosis.

Answers to reviewers

So far this automated on-line Raman spectral diagnostic system is only available in the National University of Singapore. More details of Raman spectroscopy can be seen in the related articles written by Prof. Yu Ho K and his team.

Name of journal: World Journal of Gastrointestinal Endoscopy

ESPS manuscript NO: 21977

Title: Raman spectroscopy for early real-time endoscopic optical diagnosis based on biochemical changes during the carcinogenesis of Barrett's oesophagus

Reviewer's code: 00160226

Reviewer's country: China

Science editor: Shui Qiu

Date sent for review: 2015-08-30 15:55

Date reviewed: 2015-11-03 10:30

COMMENTS TO AUTHORS

The authors performed a review on Raman spectroscopy for Barrett's esophagus. However, I have a number of major concerns: 1) The manuscript is rather brief. Need more photos, figures to explain how the device works. 2) There are only 2 papers listed on this area in the paper. Please provide a summary on the findings of the paper. Some figures on the different systems. 3) The authors should provide a review of Raman being applied to other areas in the GIT. 4) The abstract needs to be re-written as it should better introduce the paper.

Answers to reviewers

Currently there are two groups studying endoscopic confocal Raman spectroscopic systems, from Gloucestershire Royal Hospital, United Kingdom and the National University of Singapore, Singapore, respectively. More details can be seen in their articles. A summary has been provided in Table 1 in our manuscript.