



## PEER-REVIEW REPORT

**Name of journal:** World Journal of Clinical Cases

**Manuscript NO:** 68189

**Title:** Genetic characteristics of a patient with multiple primary cancers: A case report

**Reviewer's code:** 05290162

**Position:** Editorial Board

**Academic degree:** FCPS, FRCS (Ed), FRCS (Gen Surg), MBBS

**Professional title:** Adjunct Professor, Surgeon

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

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

**Manuscript submission date:** 2021-05-27

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2021-05-29 13:41

**Reviewer performed review:** 2021-05-29 14:12

**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 Grade E: Do not publish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 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 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 type="checkbox"/> Anonymous <input checked="" type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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

A unique case indeed, and well described. A few points need elaboration. 1- The staging of rectal cancer, I have doubts that a tumor at 4-5 cms from anal verge can undergo resection and joining unless preoperative radiations are given. She had stage III disease so , did she receive and post adjuvant treatment. 2- The staging of the oesophageal cancer is not mentioned properly. 3- What was done for gastric GIST? 4- The case is written in ward round history , please rewrite in medical manuscript fashion.



## PEER-REVIEW REPORT

**Name of journal:** World Journal of Clinical Cases

**Manuscript NO:** 68189

**Title:** Genetic characteristics of a patient with multiple primary cancers: A case report

**Reviewer's code:** 01221666

**Position:** Editorial Board

**Academic degree:** MD, PhD

**Professional title:** Associate Professor, Doctor, Surgeon

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

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

**Manuscript submission date:** 2021-05-27

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2021-05-27 13:18

**Reviewer performed review:** 2021-05-30 00:39

**Review time:** 2 Days and 11 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 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 type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Re-review</b>	<input type="checkbox"/> Yes <input checked="" 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 author performed a next-generation whole exome sequencing for tissue specimens of rectal cancer (2016), esophageal cancer, GIST, and WBC (2019) in a case of multiple primary cancers. They reported that esophageal cancer and GIST were not genetically evolved from rectal cancer and this patient did not have a trunk driven clone. Comments 1. The authors concluded that NGS is a useful tool to study clonal evolution of tumours and distinguish between MPMNs and intrapulmonary metastasis. This conclusion is rooted on the facts when tissue specimens are available. Moreover, what extra applications of NGS when you can reach pathological diagnoses anyway? 2. The author should demonstrate how NGS in this case aid or add clinical significance.



## PEER-REVIEW REPORT

**Name of journal:** World Journal of Clinical Cases

**Manuscript NO:** 68189

**Title:** Genetic characteristics of a patient with multiple primary cancers: A case report

**Reviewer's code:** 06040507

**Position:** Peer Reviewer

**Academic degree:** PhD

**Professional title:** N/A

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

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

**Manuscript submission date:** 2021-05-27

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2021-05-28 07:46

**Reviewer performed review:** 2021-06-04 08:19

**Review time:** 7 Days

<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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**https://**[www.wjgnet.com](https://www.wjgnet.com)

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

Ouyang et al. reported a case of 66-year-old female with multiple primary cancers, and investigated the genetic characteristics using the whole exome sequencing. The report described the methods detailly, presented the results clearly, and addressed the scientific question properly. This is a valuable study described a case of multiple primary cancers, of which, the newly diagnosed tumors in 2019 were not genetically evolved from rectal adenocarcinoma in 2016. However, some details need further improved. 1. Did authors perform Sanger sequence or RNA sequence to verify the results? 2. The sequencing technique is truly a practical tool for oncology research, and clinical diagnosis and treatment. Please clearly indicate the clinical value of WES for this certain case (e.g., How does WES assist in the diagnosis of patients? What is the guiding significance for clinical treatment? How does WES improve the patient's prognosis?). 3. Misdiagnosis is a common problem in multiple primary cancers cases. Is it necessary for all patients with multiple cancers to receive a WES test to clarify the diagnosis? Please highlight the enlighten of this report to the following clinical works. 4. As authors stated, the cause of MPMNs in this case remains unclear. Please highlight the value of WES in multiple primary cancers' mechanism research. 5. Please improve the sharpness of the red arrows in Figure 2 to make them clearly. 6. Please mention the patient's consent in the article. 7. Please ensure that all authors meet the criteria of ICMJE. 8. Please ensure that the format of the informed consent form meets the journal's requirements.



## PEER-REVIEW REPORT

**Name of journal:** World Journal of Clinical Cases

**Manuscript NO:** 68189

**Title:** Genetic characteristics of a patient with multiple primary cancers: A case report

**Reviewer's code:** 00070191

**Position:** Editorial Board

**Academic degree:** MD

**Professional title:** Professor

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

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

**Manuscript submission date:** 2021-05-27

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2021-05-31 12:17

**Reviewer performed review:** 2021-06-04 11:47

**Review time:** 3 Days and 23 Hours

<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 type="checkbox"/> Yes <input checked="" 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 study presents a case where next-generation whole-exome sequencing confirmed that ESCC and GIST did not genetically evolve from a previous rectal adenocarcinoma. The study is remarkable in terms of emphasizing the importance of whole-exome sequencing in such cases. The authors stated that esophageal SCC and GIST were not found together. However, there are cases in the literature with GIST, SCC in the esophagus, and other tumors 1. Therefore, this statement should be changed. Information on the occurrence of GIST and other tumors in the same and different organs should be emphasized more comprehensively. 1. Zhou Y, Wu X, Shi Q, Jia L. Coexistence of gastrointestinal stromal tumor, esophageal and gastric cardia carcinomas. *World J Gastroenterol* 2013; 19: 2005-8 [ PMID: 23569349. DOI: 10.3748/wjg.v19.i12.2005 ]





## RE-REVIEW REPORT OF REVISED MANUSCRIPT

**Name of journal:** World Journal of Clinical Cases

**Manuscript NO:** 68189

**Title:** Genetic characteristics of a patient with multiple primary cancers: A case report

**Reviewer's code:** 01221666

**Position:** Editorial Board

**Academic degree:** MD, PhD

**Professional title:** Associate Professor, Doctor, Surgeon

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

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

**Manuscript submission date:** 2021-05-27

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

**Reviewer accepted review:** 2021-07-06 02:54

**Reviewer performed review:** 2021-07-06 03:00

**Review time:** 1 Hour

<b>Scientific quality</b>	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input 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 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

I have no other comments.



## RE-REVIEW REPORT OF REVISED MANUSCRIPT

**Name of journal:** World Journal of Clinical Cases

**Manuscript NO:** 68189

**Title:** Genetic characteristics of a patient with multiple primary cancers: A case report

**Reviewer's code:** 05290162

**Position:** Editorial Board

**Academic degree:** FCPS, FRCS (Ed), FRCS (Gen Surg), MBBS

**Professional title:** Adjunct Professor, Surgeon

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

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

**Manuscript submission date:** 2021-05-27

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

**Reviewer accepted review:** 2021-07-06 06:22

**Reviewer performed review:** 2021-07-06 06:39

**Review time:** 1 Hour

<b>Scientific quality</b>	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input 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 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 type="checkbox"/> Anonymous <input checked="" type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

### SPECIFIC COMMENTS TO AUTHORS

Thanks for revising the manuscript according to the comments.