

## PEER-REVIEW REPORT

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

**Manuscript NO:** 62941

**Title:** Changes in the nutritional status of nine vitamins in patients with esophageal cancer during chemotherapy

**Reviewer's code:** 05261064

**Position:** Peer Reviewer

**Academic degree:** FRCPC, MD, MSc

**Professional title:** Associate Professor

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

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

**Manuscript submission date:** 2021-02-02

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2021-02-02 10:19

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

**Review time:** 28 Days and 13 Hours

<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 Grade E: Do not publish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 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 is an interesting study about the nutritional status of nine vitamins in esophageal cancer patients. The incidence and mortality rates of EC are highly heterogeneous in terms of gender, histological type, geographic distribution, and race. Multiple vitamins are involved in the pathogenesis, progression, and prognosis of tumors and are closely related to the tumor microenvironment. There are few studies have examined the changes in vitamin nutritional status before and after chemotherapy for EC and their influencing factors. Most vitamins were found to be negatively associated with the risk of colorectal and gastric cancer in addition to esophageal cancer, yet interventional treatment failed to demonstrate a clear preventive effect in these malignancies. In this study, the effects of chemotherapeutic drugs on EC patients' vitamin levels and hematological indicators were analyzed. Those findings are valuable for the implementation of tailored nutritional interventions. And it will help to reduce chemotherapy-related complications, alleviate treatment resistance, and improve chemotherapy efficacy of esophageal cancer. This study is very well designed. The samples are enough and methods are clearly described. The results are very interesting. The reviewer recommends to accept this study for publication after a minor revision.

Comments: 1. The manuscript is very well written. Only a minor language revision is required. 2. The red words in the tables should be explained or noted. Are they mean significant difference? Please make a clarify. And also, the tables should be moved to the end of the manuscript. 3. References are updated. However, the references list should be edited carefully.

## PEER-REVIEW REPORT

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

**Manuscript NO:** 62941

**Title:** Changes in the nutritional status of nine vitamins in patients with esophageal cancer during chemotherapy

**Reviewer's code:** 05266761

**Position:** Peer Reviewer

**Academic degree:** MD, PhD

**Professional title:** Professor, Research Associate

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

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

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<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>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

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

In this study, the authors investigated the changes of nine vitamins in patients undergoing chemotherapy for esophageal cancer, and their clinical values were assessed. Total 203 esophageal cancer patients were included, and the serum vitamins, hemoglobin, total protein, albumin, blood calcium, and blood phosphorus concentrations were measured. The authors found that vitamin A level significantly differed between male and female patients, vitamin D concentration significantly differed in different stages. And the hemoglobin, total protein, serum albumin and blood calcium concentrations significantly decreased after chemotherapy. Those results are very interesting, and valuable for the implementation of tailored nutritional interventions. In my opinion, this study is good enough for publication. Only a minor editing is needed. No other special comments.