

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 47755

Title: The brucea javanica oil emulsion improves the effect of radiotherapy on esophageal cancer cells by inhibiting Cyclin D1-CDK4/6 axis

Reviewer's code: 03806663

Reviewer's country: Egypt

Science editor: Ruo-Yu Ma

Reviewer accepted review: 2019-03-27 12:49

Reviewer performed review: 2019-03-29 16:20

Review time: 2 Days and 3 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 type="checkbox"/> Grade B: Minor language	(High priority)	<input 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 checked="" 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

1- this medication was tried before in other cancers like gastric cancer and malignant pleural effusion, what is the new in your work 2-some grammar mistakes and sentence style are highlighted with red in the uploaded file



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INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

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

BPG Search:

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PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 47755

Title: The brucea javanica oil emulsion improves the effect of radiotherapy on esophageal cancer cells by inhibiting Cyclin D1-CDK4/6 axis

Reviewer's code: 00182114

Reviewer's country: Japan

Science editor: Ruo-Yu Ma

Reviewer accepted review: 2019-03-30 02:26

Reviewer performed review: 2019-03-31 01:40

Review time: 23 Hours

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 type="checkbox"/> Grade B: Very good	<input 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 checked="" type="checkbox"/> Minor revision	topic of the manuscript:
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		<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

This is very interesting paper. Author concluded that BJOE has strong anti-cancer effect on esophageal cancer and can be used as a radiosensitizer to promote the apoptosis in esophageal cancerous cells via cyclin D1-CDK4/6 axis. Brucea javanica oil emulsion



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(BJOE) has been used clinically to treat esophageal cancer combined with radiotherapy for numerous years in China. However, the detailed mechanism remains unclear. Tumor hypoxia is a well-recognized characteristic associated with resistance to radiotherapy and chemotherapy. Tumor cells adapt to hypoxic microenvironments by activating associated signaling pathways . HIF-1 α plays a crucial role in tumor growth and metastasis BJOE may increase the radiosensitivity of ESCC cells by suppressing the activation of HIF-1 α . (Brucea javanica seed oil enhances the radiosensitivity of esophageal cancer by inhibiting hypoxia-inducible factor 1 α , in vitro and in vivo Oncol Lett. 2018 Mar; 15(3): 3870–3875.) Please comment the mechanism which BJOE is good effect for radiotheraphy of esophageal cancer from the point of HIF-1 α in discussion.

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PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 47755

Title: The brucea javanica oil emulsion improves the effect of radiotherapy on esophageal cancer cells by inhibiting Cyclin D1-CDK4/6 axis

Reviewer's code: 03262127

Reviewer's country: Russia

Science editor: Ruo-Yu Ma

Reviewer accepted review: 2019-03-31 08:24

Reviewer performed review: 2019-03-31 11:57

Review time: 3 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
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			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

The brucea javanica (Title, Abstract, Text) - you should write Brucea javanica (with capitalized generic name). Over 450, 000 people suffered with esophageal cancer all around the world, and its incidence keep increasing (Abstract) - this sentence is



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excessive in Abstract. To be removed. BJOE (brucea javanica oil emulsion) is a widely used drug, which is against various cancers (Abstract) - "Brucea javanica oil emulsion (BJOE) is a widely used drug against various cancers" is better. potential using as BJOE a radiosensitizer (Abstract) - "using BJOE as radiosensitizer" is better. BJOE (brucea javanica oil emulsion) is a widely used drug, which is against various cancers (Core Tip) - "Brucea javanica oil emulsion (BJOE) is a widely used drug against various cancers" is better. One of the most severe areas is China (Introduction) - is not a good-looking phrase. To be corrected. major type of esophageal cancer is ESCC (esophageal squamous cell carcinoma) - "esophageal squamous cell carcinoma (ESCC)..." is better. And Inhibition of CDK4/6 is resistant - wrong capitalization of the second word. "And Inhibition of CDK4/6 is resistant...", "And the expression of p21 is positively related..." - it is not good idea, to begin the sentence with a word "and". "BJOE (brucea javanica oil emulsion) is the fatty oil that extracted" (Introduction) - see above. Full term first, abbreviation later. "in various cancers, such as liver cancer, colon cancer and ovarian cancer" - "in various malignancies, such as liver, colon and ovarian cancers" is better and shorter. cell lines and cell culture (Material and Methods) - please capitalize the first letter. "cell lines and cell culture", "Cell viability assay" and so on - subheadings should be in BOLD!!! 90%DMEM-H - space error 37 C - wrong symbol "Different amount of brucea javanica oil emulsion" - please use abbreviation here. shenyang, China - capitalization is needed. "Afer 24 h, the cells that grew" - maybe after??? "Datas were analysed" - data is right. The killing effect of BJOE on esophageal carcinoma cells (Results) - here and below - subheadings should be in BOLD!!! "BJOE had same poisoning effect" - maybe some??? "Radiotherapy is one of the frequent methods to treat" - here, a word "frequent" is bad. To be corrected. "BJOE is promising in the treat of esophageal cancer" (Discussion) - "in the treatment" is better. References should be constructed with strict accordance!!! to Instructions for



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Authors. I have found errors in Refs. 2, 9, 21, 27, 29, 31, 33. Cologenic assays (Fig 3 Legend) - maybe clonogenic??? All the Above dates are presented (Fig 4 Legend) - Above will be decapitalized.

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Name of journal: World Journal of Gastroenterology

Manuscript NO: 47755

Title: The brucea javanica oil emulsion improves the effect of radiotherapy on esophageal cancer cells by inhibiting Cyclin D1-CDK4/6 axis

Reviewer's code: 03668592

Reviewer's country: Italy

Science editor: Ruo-Yu Ma

Reviewer accepted review: 2019-03-29 04:17

Reviewer performed review: 2019-04-01 00:49

Review time: 2 Days and 20 Hours

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
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<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
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			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

This is a very interesting and well-written study. The authors proved the BJOE has anti-cancer effect on esophageal cancer, and can be used as a radiosensitizer to promote the apoptosis in esophageal cancerous cells. These findings may provide a novel way for



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the therapy of esophageal cancer. The structure of this research is reasonable, and the result well highlighted and clear. Overall, this manuscript can be accepted after some minor language revision.

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