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PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 37464

Title: Dysregulation of PARP1 is involved in the development of Barrett's esophagus

Reviewer's code: 03699916

Reviewer's country: Denmark

Science editor: Ke Chen

Date sent for review: 2017-12-09

Date reviewed: 2017-12-10

Review time: 21 Hours

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	Google Search:	<input type="checkbox"/> Accept
<input type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> The same title	<input type="checkbox"/> High priority for publication
<input checked="" type="checkbox"/> Grade C: Good	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Duplicate publication	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	<input type="checkbox"/> Plagiarism	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		<input checked="" type="checkbox"/> No	<input type="checkbox"/> Major revision
		BPG Search:	
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input checked="" type="checkbox"/> No	

COMMENTS TO AUTHORS

General comments: The topic of BE is very important because the BE is very close related the development of esophageal carcinoma. This is a very good basic study. Authors from animal BE model, human BE tissue and cell culture investigated the involvement of PARP1 in the development of BE. The experiments are well performed and the resents are well presented. The English writing in the manuscript is also very good. However, the manuscript should be improved from several aspects following. 1, In last paragraph of introduction, authors should provide hypotheses and aims for the study rather than mention the main discoveries and conclusion of the study. 2, In the method section, authors performed the microarray analysis in BE tissues for PARP1 expression from animals and staining of γ H2AX, NF- κ B and PAR in humans separately. Why authors not synchronously performed the all tests in animals or humans, then authors can confirm the same findings of BE tissues both from animals and humans. 3, In the



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discussion, second to fourth paragraphs look like introduction (review of literature) rather than discussion relation to own discoveries in the study. The discussion should base on the results from the study and compared own results with others. What is new from the present study and what is consistent or different from other studies. Specific comments: 1, The basic data of animals should be provided, for example number, species, gender and body weight. How many animals were died after three months of operation? 2, The basic data of humans should be provided too. 3, The locations of tissues obtained from animals or humans for the microarray analysis of PARP1 expression and staining of γ H2AX, NF- κ B and PAR should be clearly indicated.