

ESPS PEER REVIEW REPORT

Name of journal: World Journal of Gastroenterology

ESPS manuscript NO: 13321

Title: The biological effect of pancreatic carcinoma cells in vitro with 125I seeds low dose rate irradiation

Reviewer code: 01490079

Science editor: Jin-Lei Wang

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CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	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"/> Existing	<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"/> No records	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	BPG Search:	<input checked="" type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		<input type="checkbox"/> Existing	<input type="checkbox"/> Major revision
		<input type="checkbox"/> No records	

COMMENTS TO AUTHORS

This is an interesting study. The study is well designed, and in this study, the authors determined whether 125I seeds continuous low dose rate irradiation caused radiation-induced biological effect of pancreatic carcinoma cells in vitro and the mechanism by which this occurred. They concluded that for the continuous low dose rate irradiation in vitro with 125I seed, there are no significant differences of cellular radiosensitivity between SW1990 and Panc-1 cell lines with the dosage ranging from 0Gy to 8Gy, and 6Gy is an efficient dosage. The major mechanisms of cell-killing effects for 125I radioactive seeds are the apoptosis and the G2/M cell cycle arrest. Comments: 1 The manuscript should be edited, and some language polishing should be revised by a Native English speaker. 2 The results are clear, but it need to be discussed with more ref.