

PEER-REVIEW REPORT

Name of journal: World Journal of Gastroenterology

Manuscript NO: 72788

Title: Will the collaboration of surgery and external radiotherapy open new avenues for

hepatocellular carcinoma with portal vein thrombosis?

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05127202 Position: Peer Reviewer Academic degree: PhD

Professional title: Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: South Korea

Manuscript submission date: 2021-10-28

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-10-28 08:30

Reviewer performed review: 2021-10-28 09:21

Review time: 1 Hour

Scientific quality	[] Grade A: Excellent [Y] Grade B: Very good [] Grade C: Good [] Grade D: Fair [] Grade E: Do not publish
Language quality	[] Grade A: Priority publishing [Y] Grade B: Minor language polishing [] Grade C: A great deal of language polishing [] Grade D: Rejection
Conclusion	[] Accept (High priority) [Y] Accept (General priority) [] Minor revision [] Major revision [] Rejection
Re-review	[Y]Yes []No



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Peer-reviewer statements

Peer-Review: [Y] Anonymous [] Onymous

Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

The authors proposed the combination of surgery and external radiotherapy were expected to increase efficacy of treating hepatocellular carcinoma with portal invasion. In my opinion, this is a valuable viewpoint supported by relevant evidence and has certain scientific research value in the future.



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Reviewer's code: 00028182 Position: Peer Reviewer Academic degree: MD

Professional title: Associate Professor, Doctor

Reviewer's Country/Territory: Italy

Author's Country/Territory: South Korea

Manuscript submission date: 2021-10-28

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-10-28 15:44

Reviewer performed review: 2021-10-28 21:11

Review time: 5 Hours

Scientific quality	[Y] Grade A: Excellent [] Grade B: Very good [] Grade C: Good [] Grade D: Fair [] Grade E: Do not publish
Language quality	[Y] Grade A: Priority publishing [] Grade B: Minor language polishing [] Grade C: A great deal of language polishing [] Grade D: Rejection
Conclusion	[] Accept (High priority) [] Accept (General priority) [Y] Minor revision [] Major revision [] Rejection
Re-review	[Y]Yes []No



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statements | Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

Portal invasion of hepatocellular carcinoma (HCC) is associated with poor clinical prognosis. Since it characterized the advanced stages of HCC, it is a common cause of inoperability and systemic therapy is currently the standard treatment for HCC in the Barcelona Clinic of Liver Cancer guidelines. However, the median survival of the Asian population was only ~6 months, and the tumor response rate was less than moderate (<5%). Various locoregional modalities were performed, including external beam radiotherapy (EBRT), transarterial chemoembolization, hepatic arterial infusion chemotherapy, and surgery, alone or in combination. Among them, EBRT is a noninvasive method and can safely treat tumors involving the major vessels. Palliative EBRT has been commonly performed, especially in East Asian countries, where locally invasive HCC is highly prevalent. Although surgery is not commonly indicated, pioneering studies have demonstrated encouraging results in recent decades. Furthermore, the combination of neo- or adjuvant EBRT and surgery has been recently used and has significantly improved the outcomes of HCC patients, as reported in a few randomized studies. Regarding systemic modality, a combination of novel immunotherapy and VEGF inhibitor showed results superior to that of sorafenib as a first-line agent. In this interesting review the authors discuss the rationale supporting the use of combined surgery and external radiotherapy. Future clinical trials investigating the combined use of these novel agents, surgery, and EBRT are expected to improve the prognosis of HCC with portal invasion. The review is of interest, however some important topics should be discussed to further improve the clinical impact. -The authors should first discuss current international recommendations suggesting systemic



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treatments for patients with advanced HCC. In particular, it would be relevant recalling the clinicla benefit associated to regorafenib treatment after sorafenib failure as well desribed in a recent review (Experience with regorafenib in the treatment of Adv hepatocellular carcinoma. Therap Gastroenterol. 2021 May 28;14:17562848211016959). -Another clinically relevant topic is treatment with impaired liver function such as patients with Child-Pugh class B who have limited therapeutic options as well described in a recent review (Non-transplant therapies for patients with hepatocellular carcinoma and Child-Pugh-Turcotte class B cirrhosis. Lancet Oncol. 2017 Feb;18(2):e101-e112). The authors should discuss potential treatment of such a patient category. -Future perspective: in my opinion it would clinically relevant discussing the impact of new emerging immunotherapies targeting tumor microenvironment, particulary targeting cd4+cd25 regulatory T cells that have a well established immunosuppressive role in HCC microenvironment, as recently described (Hepatocellular carcinoma in viral and autoimmune liver diseases: Role of CD4+ CD25+ Foxp3+ regulatory T cells in the immune microenvironment. World J Gastroenterol. 2021 Jun 14;27(22):2994-3009.).



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Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05665137 Position: Editorial Board Academic degree: MD

Professional title: Associate Professor

Reviewer's Country/Territory: China

Author's Country/Territory: South Korea

Manuscript submission date: 2021-10-28

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-10-29 03:03

Reviewer performed review: 2021-10-29 03:26

Review time: 1 Hour

Scientific quality	[] Grade A: Excellent [] Grade B: Very good [Y] Grade C: Good [] Grade D: Fair [] Grade E: Do not publish
Language quality	[] Grade A: Priority publishing [Y] Grade B: Minor language polishing [] Grade C: A great deal of language polishing [] Grade D: Rejection
Conclusion	[] Accept (High priority) [Y] Accept (General priority) [] Minor revision [] Major revision [] Rejection
Re-review	[]Yes [Y]No



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Peer-reviewer statements

Peer-Review: [Y] Anonymous [] Onymous

Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

no



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Peer-review model: Single blind

Reviewer's code: 06170143 Position: Peer Reviewer Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Taiwan

Author's Country/Territory: South Korea

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Reviewer chosen by: AI Technique

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Reviewer performed review: 2021-11-01 00:19

Review time: 2 Days and 16 Hours

Scientific quality	[Y] Grade A: Excellent [] Grade B: Very good [] Grade C: Good [] Grade D: Fair [] Grade E: Do not publish
Language quality	[Y] Grade A: Priority publishing [] Grade B: Minor language polishing [] Grade C: A great deal of language polishing [] Grade D: Rejection
Conclusion	[Y] Accept (High priority) [] Accept (General priority) [] Minor revision [] Major revision [] Rejection
Re-review	[Y]Yes []No



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Peer-reviewer statements

Peer-Review: [] Anonymous [Y] Onymous

Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

This is an excellently written review from a well-known Korean team addressing the issue of external beam radiotherapy, surgery, and the combination for treating hepatocellular carcinoma with portal vein thrombosis. This topic is worth reviewing because of the advance of radiotherapy in recent years, and the new and only randomized controlled trial has been published to demonstrate a survival benefit for neoadjuvant radiotherapy in the population. Specific comment: 1. Paragraph "Palliating portal invasion with external radiotherapy": compared with photon radiotherapy, proton beam radiotherapy has been demonstrated to improve overall survival by lowering liver toxicity. (PMID 32605627; 30684667). Moreover, there are some retrospective reports that demonstrate clinical outcomes by proton beam radiotherapy (for example, PMID 31772968). It would be great if the outcome and technique could be mentioned. 2. About the surgery and radiotherapy as a combination treatment, there is data exploring the possibility of liver transplant for the patient well down-staged by external beam radiotherapy and demonstrated impressive outcome albeit with an only limited case number. (PMID 32032291) I would recommend including this potential treatment option as a future perspective.