

## PEER-REVIEW REPORT

**Name of journal:** *World Journal of Gastrointestinal Oncology*

**Manuscript NO:** 67146

**Title:** Role of three-dimensional printing and artificial intelligence in the management of hepatocellular carcinoma: Challenges and opportunities

**Provenance and peer review:** Invited manuscript; Externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 05824555

**Position:** Peer Reviewer

**Academic degree:** PhD

**Professional title:** Doctor

**Reviewer's Country/Territory:** Brazil

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

**Manuscript submission date:** 2021-04-15

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2021-04-21 13:13

**Reviewer performed review:** 2021-04-22 12:55

**Review time:** 23 Hours

Scientific quality	<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 Grade E: Do not publish
Language quality	<input checked="" type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<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
Re-review	<input checked="" type="checkbox"/> Yes <input 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 paper introduces an extensive survey of AI- and 3D Printing-based applications in context of Hepatocellular Carcinoma and Computer-aided solutions, an important field of study that embraces different Computer-Based Solutions such as Artificial Intelligent tools, 3D printing systems, and other innovative technologies to fight against liver cancer. The authors did a lot of work to gather, organize and discuss the state-of-the-art papers as well as recent works covering AI, ML and other trends in computer-generated image applications. Despite the good analyzes and review process, I believe that the Discussion section could be conducted under the analysis of some main/pivotal works, as mentioned in the previous sections. By doing this, readers could have an interesting comparison involving the pros and cons of the current works / methodologies / systems. However, given that the article does a good job of discussing the existing works, I would still recommend accepting this manuscript. Minor correction: "Cochrane, and Scopus databases was conducted using the following algorithms" => "Cochrane, and Scopus databases was conducted using the following queries"