PEER-REVIEW REPORT

Name of journal: Artificial Intelligence in Cancer

Manuscript NO: 56778

Title: Application of artificial intelligence in clinical non-small cell lung cancer

Reviewer's code: 02676756

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Italy

Author's Country/Territory: China

Manuscript submission date: 2020-05-14

Reviewer chosen by: AI Technique

Reviewer accepted review: 2020-05-14 05:32

Reviewer performed review: 2020-06-04 08:01

Review time: 21 Days and 2 Hours

Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish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
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

The authors highlight the relevance of AI in lung cancer diagnosis, prognosis, pharmacological treatment. This subject is of great interest for the scientific community and especially for Lung cancer patients who could benefit from these technologies. The manuscript is well written and straightforward readable. I would suggest to include a figure on the general characteristics of AI correlated to the beneficial outcomes. In addition, authors should give their opinion regarding any potential pitfall of AI in lung cancer. According to the accuracy stated, which is around 90%, what happens to that 10% that may reflect AI pitfall/s?