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## PEER-REVIEW REPORT

**Name of journal:** *Artificial Intelligence in Cancer*

**Manuscript NO:** 86167

**Title:** Artificial intelligence in the diagnosis of thyroid cancer: Recent advances and future directions.

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

**Peer-review model:** Single blind

**Reviewer's code:** 05327699

**Position:** Editorial Board

**Academic degree:** MBBS, MNAMS, MS

**Professional title:** Additional Professor

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

**Author's Country/Territory:** United Kingdom

**Manuscript submission date:** 2023-06-03

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2023-06-07 13:56

**Reviewer performed review:** 2023-06-07 14:46

**Review time:** 1 Hour

<b>Scientific quality</b>	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
<b>Novelty of this manuscript</b>	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
<b>Creativity or innovation of this manuscript</b>	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No creativity or innovation



<b>Scientific significance of the conclusion in this manuscript</b>	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input checked="" type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No scientific significance
<b>Language quality</b>	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
<b>Conclusion</b>	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
<b>Re-review</b>	<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

**SPECIFIC COMMENTS TO AUTHORS**

Dear Authors,

1. A good mini-review on AI in Thyroid Carcinoma. The authors need to work on the flow of this manuscript.
2. The authors should mention about the future of AI based apps in Thyroid Ca and a para on how the sensitivity and specificity in diagnosis and prognosis can be improved.
3. Please mention what this review article adds to the existing literature .
4. What is the take of authors on use of supervised/semi-supervised or unsupervised AI apps in terms of better results?
5. How to deal with the inter - observer's factor for improvement in sensitivity and specificity ? Thanks



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**Peer-review model:** Single blind

**Reviewer's code:** 05382254

**Position:** Peer Reviewer

**Academic degree:** MD

**Professional title:** Assistant Professor, Associate Chief Physician, Doctor

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

**Author's Country/Territory:** United Kingdom

**Manuscript submission date:** 2023-06-03

**Reviewer chosen by:** Geng-Long Liu

**Reviewer accepted review:** 2023-06-30 08:51

**Reviewer performed review:** 2023-07-02 02:39

**Review time:** 1 Day and 17 Hours

<b>Scientific quality</b>	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
<b>Novelty of this manuscript</b>	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
<b>Creativity or innovation of this manuscript</b>	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No creativity or innovation



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<b>Conclusion</b>	<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
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<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

### SPECIFIC COMMENTS TO AUTHORS

Lakshmi Nagendra et al. provide a more comprehensive overview of the advances in the application of artificial intelligence (AI) in thyroid cancer diagnosis, with clear ideas and a well-structured article. There are several places where the authors are suggested to revise. First, the authors mention the features or advantages of AI for each subheading related to the content, but rarely mention the limitations of AI. It is suggested that the authors add the corresponding limitations of AI in the appropriate places. Secondly, the authors stated in the Core Tip that "thyroid cancer has a high mortality rate", which, seems to be inaccurate. Third, there are some spelling errors in the article, such as missing periods and spaces.