



PEER-REVIEW REPORT

Name of journal: Artificial Intelligence in Medical Imaging

Manuscript NO: 56594

Title: The rising role of artificial intelligence in image reconstruction for biomedical imaging

Reviewer's code: 02634762

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Doctor

Reviewer's Country/Territory: Japan

Author's Country/Territory: China

Manuscript submission date: 2020-05-07

Reviewer chosen by: AI Technique

Reviewer accepted review: 2020-05-07 12:34

Reviewer performed review: 2020-05-07 12:49

Review time: 1 Hour

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|---------------------------------|---|
| 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 Grade E: Do not publish |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 type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection |
| Re-review | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Peer-reviewer statements | Peer-Review: <input type="checkbox"/> Anonymous <input checked="" type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |



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SPECIFIC COMMENTS TO AUTHORS

The authors overviewed AI technologies in the field of image reconstruction. This is an area of great interest because high-quality images could be reconstructed in a short time. Generally, the manuscript is well written. Please see the comments below. Abstract OK
Core Tip OK Background 1. Please clarify what 3D imaging mode refers to. 2. What does "imaging dose" mean? Please clarify. 3. What does "image speed" mean? Please clarify. Advances 1. "Low dose" is quite obscure. What dose? Contrast medium or radiation dose? Please clarify. 2. Please cite some clinical studies using AI reconstruction techniques, such as True Fidelity (GE) and AiCE (Canon), etc. Outlook OK