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PEER-REVIEW REPORT

Name of journal: World Journal of Clinical Cases

Manuscript NO: 57545

Title: A radiomics model for distinguishing tuberculosis and lung cancer on CT scans

Reviewer's code: 03015897
Position: Peer Reviewer
Academic degree: FEBG, MD
Professional title: Associate Professor, Research Scientist, Senior Lecturer
Reviewer's Country/Territory: Canada
Author's Country/Territory: China

Manuscript submission date: 2020-07-21
Reviewer chosen by: AI Technique
Reviewer accepted review: 2020-07-27 11:57
Reviewer performed review: 2020-07-30 01:56
Review time: 2 Days and 13 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Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish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	[ ] Yes [Y] No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

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SPECIFIC COMMENTS TO AUTHORS

The authors of this study aimed to develop and validate radiomics methods for distinguishing pulmonary TB from LC based on CT images. To do this, they reviewed 478 patients who underwent preoperative CT screening. Radiomics features were extracted and selected from preoperative lung CT images. An eight-feature-combined radiomics signature was constructed as an identifier of TB and LC. A radiomics nomogram model was also plotted and validated with calibration curve and decision curve analyses. Results of their study revealed the presently constructed nomogram had clinical usefulness. The authors concluded that These proposed radiomic methods can be used as a noninvasive tool for differentiation of TB and LC based on preoperative CT data. This is a concise and thorough study, which would add value to the current established knowledge and evidence.

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PEER-REVIEW REPORT

Name of journal: World Journal of Clinical Cases

Manuscript NO: 57545

Title: A radiomics model for distinguishing tuberculosis and lung cancer on CT scans

Reviewer's code: 02992676
Position: Peer Reviewer
Academic degree: FEBS, MD, PhD
Professional title: Professor, Research Fellow, Research Scientist
Reviewer's Country/Territory: Australia
Author's Country/Territory: China

Manuscript submission date: 2020-07-21
Reviewer chosen by: AI Technique
Reviewer accepted review: 2020-07-21 11:37
Reviewer performed review: 2020-07-30 01:58
Review time: 8 Days and 14 Hours

Scientific quality	[Y] Grade A: Excellent [ ] 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) [ ] Accept (General priority) [Y] Minor revision [ ] Major revision [ ] Rejection
Re-review	[Y] Yes [ ] No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

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SPECIFIC COMMENTS TO AUTHORS

This is an interesting manuscript focusing on evaluating the discriminative performance of peritumoral regions on differentiating between TB and LC. Due to the radiological similarities of TB and LC, even highly trained radiologists relying on CT data are often prone to misdiagnosis, or missing diagnosis altogether. Noninvasive and computer-aided alternatives are required to improve the discrimination of TB and LC. The article is well written, and the idea of the study is novel. The text is strictly logical. I have no further comments.

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PEER-REVIEW REPORT

Name of journal: World Journal of Clinical Cases

Manuscript NO: 57545

Title: A radiomics model for distinguishing tuberculosis and lung cancer on CT scans

Reviewer's code: 03024280
Position: Peer Reviewer
Academic degree: FRCS (Ed), PhD
Professional title: Professor, Senior Lecturer
Reviewer's Country/Territory: United States
Author's Country/Territory: China

Manuscript submission date: 2020-07-21
Reviewer chosen by: AI Technique
Reviewer accepted review: 2020-07-27 11:57
Reviewer performed review: 2020-07-30 02:03
Review time: 2 Days and 14 Hours

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) [ ] Accept (General priority) [Y] Minor revision [ ] Major revision [ ] Rejection
Re-review	[Y] Yes [ ] No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

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SPECIFIC COMMENTS TO AUTHORS

Congrats for the excellent study based on preoperative lung CT images! The authors retrospectively reviewed data of 478 patients who who underwent preoperative CT screening. Radiomics features were extracted and selected from the CT data to establish a logistic regression model. A radiomics nomogram model was constructed, with the receiver operating characteristic, decision and calibration curves plotted to evaluate the discriminative performance. The decision curve analysis revealed that the presently constructed nomogram had clinical usefulness. Overall, this is well-designed, scitifically analyzed, and well-written paper. I have some minor remarks: 1. Figure 1 and Figure 4 are not found in the body text. Please check the full text carefully. 2. It is recommended to give Figure 2 a more detailed description.