

PEER-REVIEW REPORT

Name of journal: *World Journal of Radiology*

Manuscript NO: 82138

Title: Evaluation of Causal Heart Diseases in Cardioembolic Stroke by Cardiac Computed Tomography

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06484447

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Dean, Professor

Reviewer's Country/Territory: China

Author's Country/Territory: Japan

Manuscript submission date: 2022-12-06

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-01-11 04:20

Reviewer performed review: 2023-01-22 16:42

Review time: 11 Days and 12 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 Grade E: Do not publish
Novelty of this manuscript	<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 novelty
Creativity or innovation of this manuscript	<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 creativity or innovation

Scientific significance of the conclusion in this manuscript	<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
Language quality	<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
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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Peer-reviewer statements	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

The authors reviewed potential clinical applications of CCT in an ischemic stroke population, with a focus on diagnosing cardioembolic sources using CCT. Specifically, left atrial thrombus and associated pathologies, left ventricular thrombus and associated pathologies, intracardiac tumors, valvular abnormalities, and causal pathologies of paradoxical embolism are discussed. It concluded that CCT can provide high-quality information about the causal heart disease in patients with cardioembolic stroke. The manuscript is well arranged.

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Peer-review model: Single blind

Reviewer's code: 02446043

Position: Editorial Board

Academic degree: FACC

Professional title: Lecturer

Reviewer's Country/Territory: Malaysia

Author's Country/Territory: Japan

Manuscript submission date: 2022-12-06

Reviewer chosen by: Dong-Mei Wang

Reviewer accepted review: 2023-02-20 12:10

Reviewer performed review: 2023-02-25 13:15

Review time: 5 Days and 1 Hour

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
Novelty of this manuscript	<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
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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 type="checkbox"/> Yes <input checked="" 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

SPECIFIC COMMENTS TO AUTHORS

This is a good descriptive review of CCT in diagnosing the source of embolic in cardioembolic stroke. It should be published. To improve the paper, authors should make 2 minor revisions 1. In fig 6 the author illustrates the role of CCT in diagnosis of coronary disease. Author should briefly comment on the value and accuracy of CCT compared to coronary CT angiogram. 2. Since the article refers to congenital, valvular and atherosclerotic heart disease, author should produce a table and briefly outline value of CCT in investigations of these conditions

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Title: Evaluation of Causal Heart Diseases in Cardioembolic Stroke by Cardiac Computed Tomography

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05827902

Position: Editorial Board

Academic degree: FACC, MD

Professional title: Assistant Professor

Reviewer's Country/Territory: United States

Author's Country/Territory: Japan

Manuscript submission date: 2022-12-06

Reviewer chosen by: Dong-Mei Wang

Reviewer accepted review: 2023-02-26 04:27

Reviewer performed review: 2023-02-26 18:39

Review time: 14 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
Novelty of this manuscript	<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 novelty
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Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Peer-reviewer statements	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

The authors present a very good review of the utility of cardiac CT in the evaluation of potential cardiac sources of emboli in the evaluation of stroke. They have written it very well explaining possible cardiac pathologies that could be associated with embolic phenomena that could be detected on cardiac CT. Pictorial illustrations are good. Although TEE is the most commonly utilized cardiac imaging tool for possible cardiac sources of emboli, cardiac CT provides has the potential to provide promising results in this clinical scenario as described by the authors.