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PEER-REVIEW REPORT

Name of journal: *World Journal of Clinical Cases*

Manuscript NO: 77454

Title: Microwave ablation of solitary T1N0M0 papillary thyroid carcinoma: A case report

Provenance and peer review: Unsolicited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 03656595
Position: Peer Reviewer
Academic degree: MD, PhD
Professional title: Chief Doctor, Professor
Reviewer's Country/Territory: China
Author's Country/Territory: Portugal

Manuscript submission date: 2023-03-14

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-03-15 15:15

Reviewer performed review: 2023-03-23 19:53

Review time: 8 Days and 4 Hours

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Novelty of this manuscript	[ ] Grade A: Excellent [ ] Grade B: Good [Y] Grade C: Fair [ ] Grade D: No novelty
Creativity or innovation of this manuscript	[ ] Grade A: Excellent [ ] Grade B: Good [Y] Grade C: Fair [ ] Grade D: No creativity or innovation

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Scientific significance of the conclusion in this manuscript	[ ] Grade A: Excellent [Y] Grade B: Good [ ] Grade C: Fair [ ] Grade D: No scientific significance
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) [ ] Minor revision [Y] Major revision [ ] Rejection
Re-review	[ ] Yes [Y] No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous
	Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

This article investigated a case with papillary thyroid carcinoma treated by microwave ablation. Major points： 1. The background in the manuscript is too brief to understand the motivation of the study. Previously, microwave ablation was mainly used for the treatment of recurrent thyroid cancer without surgical indications. Nonetheless, the current indications were extended to the ablation of benign thyroid nodules, thyroid microcarcinoma, regional metastatic lymph nodes, as well as enlarged glands in Graves' disease. The authors need to replenish the treatment indications about the Korean Society of Thyroid Radiology launched a consensus on the ablation treatment (AT) of thyroid nodules in 2012 and 2017. 2. Similarly, the discussion in the manuscript is too brief, and lack of main concerns. e.g., ①For lesions > 1 cm in diameter, the residual rate of the tumor is as high as 50% after AT. How did you confirm there was no tumor residue? ② Ablation will increase the risk of subsidiary-injury. How did you avoid it? ③ What are the best option for the ablation therapy?

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Reviewer's code: 05462969
Position: Peer Reviewer
Academic degree: MD

Professional title: Assistant Professor, Attending Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: Portugal

Manuscript submission date: 2023-03-14

Reviewer chosen by: Geng-Long Liu

Reviewer accepted review: 2023-04-09 00:32

Reviewer performed review: 2023-04-17 14:46

Review time: 8 Days and 14 Hours

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [ ] Grade C: Good [Y] Grade D: Fair [ ] Grade E: Do not publish
Novelty of this manuscript	[ ] Grade A: Excellent [ ] Grade B: Good [Y] Grade C: Fair [ ] Grade D: No novelty
Creativity or innovation of this manuscript	[ ] Grade A: Excellent [ ] Grade B: Good [Y] Grade C: Fair [ ] Grade D: No creativity or innovation

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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

This case shows microwave thermoablation can be a safe and effective alternative to surgery in patients with no conditions to undergo surgery or refuse it.However，thers is no control case ，so this not solid evidence for clinical practice