



### REVIEWER'S REPORT

Manuscript No.: 50741

Date: 23-03-2025

#### Title:

### Leveraging Microstrip Antennas for Early-Stage Testicular Cancer

### Diagnosis: A Review

#### Recommendation:

Accept ... **Yes**

Accept after minor revision ... ..

Do not accept (*Reasons below*) ...

Rating	Excel.	Good	Fair	Poor
Originality			<b>YES</b>	
Techn. Quality				<b>YES</b>
Clarity		<b>YES</b>		
Significance			<b>YES</b>	

Reviewer Name: Gulnawaz Gani

#### Reviewer's Comment for Publication

The article contributes by proposing microstrip antennas as a promising non-invasive tool for early-stage testicular cancer detection, highlighting their potential integration with wearable diagnostics.

#### *Detailed Reviewer's Report*

This article presents a novel perspective on using microstrip antennas for non-invasive testicular cancer detection, showcasing their affordability and integration potential in wearable devices.

It successfully highlights the benefits of microwave imaging for early cancer screening, supported by relevant studies from other cancer domains.

However, the review lacks empirical validation and is mostly conceptual, limiting its current clinical applicability. The authors identify key technical challenges like signal reflection and limited penetration depth but offer only generalized solutions.

Comparative analysis with traditional methods is informative but not data-driven. The discussion on AI and multimodal integration is promising but underdeveloped.

Overall, the article serves as a useful review but requires experimental backing and deeper technical analysis to support its claims effectively.

#### Decision:

**Accept**