

278

**International Surgical Week** 



isw2024.org

109

# "Interpreting Discordance: False Core Needle Biopsy in Breast Cancer and the Imperative for Precision-guided Revision Surgeries"

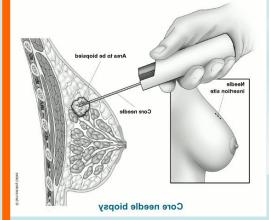
The World's Congress of Surgery



Dr. Sneha Yadav<sup>1</sup>, Dr. Jayashri Pandya<sup>2</sup>

Topiwala National Medical college & BYL Nair Charitable Hospital, Mumbai, India

### **INTRODUCTION:**



Breast cancer, a pervasive threat, often undergoes diagnostic scrutiny through core needle biopsy. However, the prevalence of false-negative results introduces complexities, prompting a closer examination of the need for surgeries to ensure accuracy in diagnosis and treatment planning.

### **OBJECTIVE:**

To investigate and evaluate cases, wherein false-negative core needle biopsy outcomes led to

critical interventions, including wide local excision and modified radical mastectomy.

## **METHODOLOGY:**

A retrospective review analysis was conducted at a tertiary medical hospital in india, of patient's who had undergone were image guided (USG) core-needle biopsy(ICNBs) of breast from the period of january,2023-december,2023.

A total sample size of n=846 was obtained and within the cohort group, revision histopathological specimens of breast lump with discordant core needle biopsies, their resection and the subsequent need for surgeries over a year were reviewed and investigated for in study.

RESULT

278

Of the total sample size of 846 core needle breast biopsy's (ICNBs),568(64.10%) cases were <u>Malignant lesions</u>. The remaining <u>278 (benign/inconclusive</u>), <u>Wide local excisions</u> were done in 39.2%(109/278) as USG was suspicious due to higher BIRADS, and high risk clinical profile. 34.86% (38/109) were benign, while 65.1% (71/109) were malignant.

109

Surgery, including conversion to modified radical mastectomy, was required in 17.3% (19/109) of cases due to positive resection margins. <u>The false-negative rate requiring surgery</u> <u>reached 8.3% (71/846)</u>, underscoring the need for comprehensive histopathological reassessment.

### <u>CONCLUSION</u>

In light of ICNBs as an established reliable diagnostic tool for breast cancer, the occurrence of false negatives value of 8.3% in the study may be attributed to discrepancies between imaging findings and pathology results.

This underscores the critical importance of rigorous imaging-pathology correlation, Effective communication in clinical practice for achieving concordance and minimizing diagnostic errors.

This collaborative effort ensures comprehensive evaluation and appropriate follow-up, thereby optimizing patient care outcomes in breast cancer diagnosis and management.