

## **An Appraisal of the Utilization of the New International Academy of Cytology Yokohama Standardized Reporting System: A Study of Diagnostic Accuracy and Calculation of the Risk of Malignancy Along with Histopathological Correlation in Fine-Needle Aspiratio**

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**Abstract :** Objective: Breast cancer is the most commonly encountered lesion in females after non-melanoma skin malignancies. The triple assessment is an important approach in pre-operative lesions in developing countries. The objectives of the present study were to determine diagnostic accuracy and calculation of ROM along with cyto-histopathological correlation with the incorporation of a new IAC reporting system. Material and Methods: A total of 940 FNAC slides were retrieved from December 2019 to December 2020 and categorized according to the new IAC system. The diagnostic accuracy and calculation of ROM, along with cyto-histopathological correlation, were determined. Results: All the breast FNAC lesions were categorized from C1 to C5. Of the 940 cases, 358 cases had cyto-histopathological correlation. The ROM was ranging from 0% to 99%. All the statistical parameters were calculated along with diagnostic accuracy which was 97%. Conclusion: The new IAC standardized reporting system of breast FNAC evoked the utilization of rapid, accurate, and low-cost diagnostic tests and broadened the understanding and application of breast FNAC.

**Keywords :** accuracy, fine needle aspiration cytology, IAC, risk of malignancy, Yokohama system

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