Use of Real Time Specimen Radiography to Evaluate the Number of Stereotactic Core Biopsy Specimens Containing Calcifications Required for Diagnosis

Kwait DC, Chikarmane SA, Semine-Misbach L, Agoston A, Lester S, Giess CS. **Journal of Breast Imaging.** 2022, 618–624. DOI:10.1093/jbi/wbac062

Study Goal

• Quality assurance initiative to determine the minimum number of calcification-containing stereotactic biopsy specimens sufficient for pathologic diagnosis and immunohistochemistry (IHC) in cases of malignancy.

Study Population

- 129 individual specimens with calcifications from 126 patients, retrieved with the Brevera stereotactic biopsy system with real-time specimen imaging.
- A minimum of six core specimens were taken from each calcified target and reviewed in order of retrieval.

Key Outcome Measures

Specimens containing calcifications were reported independently identifying which specimens had sufficient calcifications for diagnosis.

Key Findings

Average of 8 specimens were taken for each calcified target.

43% of initial core specimens contained calcifications.

Diagnosis was made from the:

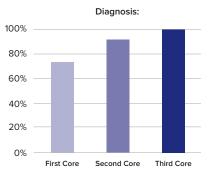
- first calcified specimen in 74% of cases
- first two calcified specimen in 92% of cases
- first three calcified specimen in 100% of cases

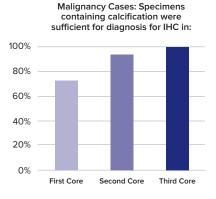
In cases of malignancy, specimens containing calcifications were sufficient for diagnosis and IHC in:

- first calcified specimen in 73% of cases
- first two calcified specimen in 94% of cases
- first three calcified specimen in 100% of cases

Conclusion

Three calcified cores verified on real-time specimen imaging were sufficient to make a diagnosis and obtain IHC need nearly all cases.





Presented by Hologic Medical Education

www.hologic.com | info@hologic.com | +1.800.442.9892

MED-00821 REV 001 © Hologic 2023. All rights reserved. Views and opinions expressed herein by third parties are theirs alone and do not necessarily reflect those of Hologic. This information is intended for medical professionals in the U.S. and other markets and is not intended as a product solicitation or promotion where such activities are prohibited. Because Hologic materials are distributed through websites, eBroadcasts and tradeshows, it is not always possible to control where such materials appear. For information on specific products available for sale in a particular country, please contact your local Hologic representative or write to womenshealth@hologic.com.