

# Using Clay Models to Simulate Biopsy Procedures Allowing Residents Practice in Mammography Techniques

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## PURPOSE

Understand the importance of hands-on training in interventional mammography techniques for medical residents.

Explore the use of clay models as a simulation tool for breast biopsy procedures.

Discuss the effectiveness and benefits of clay model-based training in enhancing residents' proficiency in interventional mammography.

## BACKGROUND

Interventional mammography techniques, including breast biopsy procedures, are critical skills for the diagnosis of breast cancer and other pathologies.

These procedures demand precision and expertise to ensure accurate diagnosis and minimize patient discomfort.

This educational poster introduces an innovative approach using clay models to simulate biopsy procedures, offering residents a safe and effective way to develop their skills.

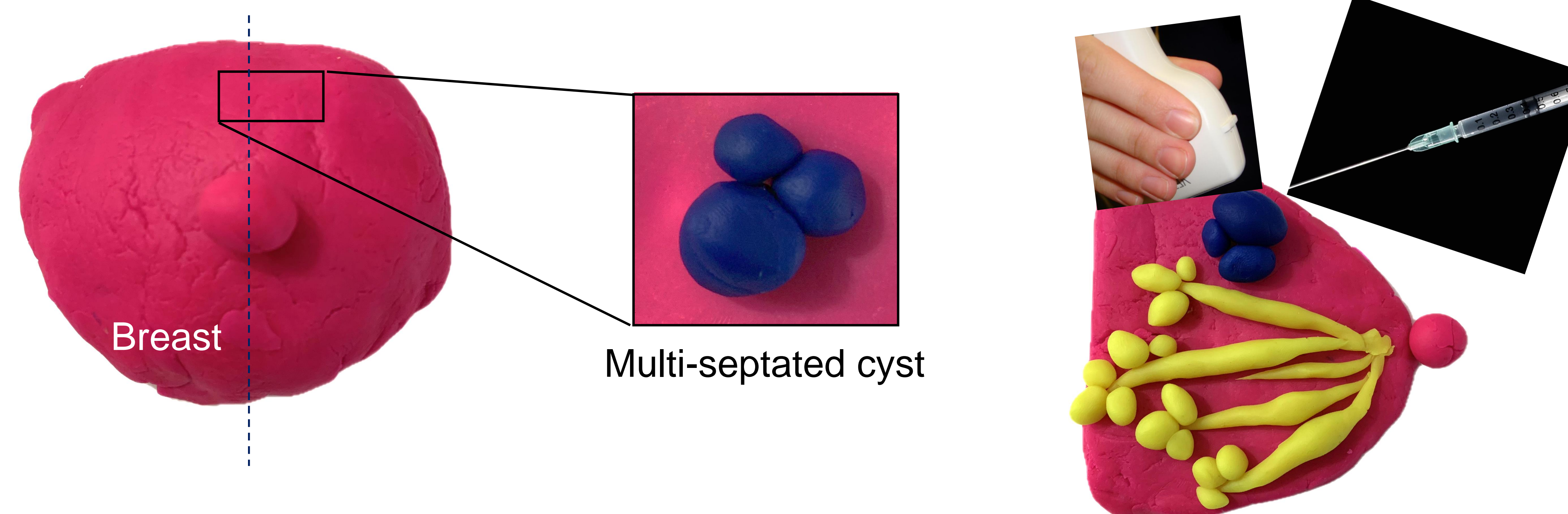
## METHOD

The use of clay models is an effective and low cost method for medical residents to familiarize themselves on best practices for biopsy procedures.

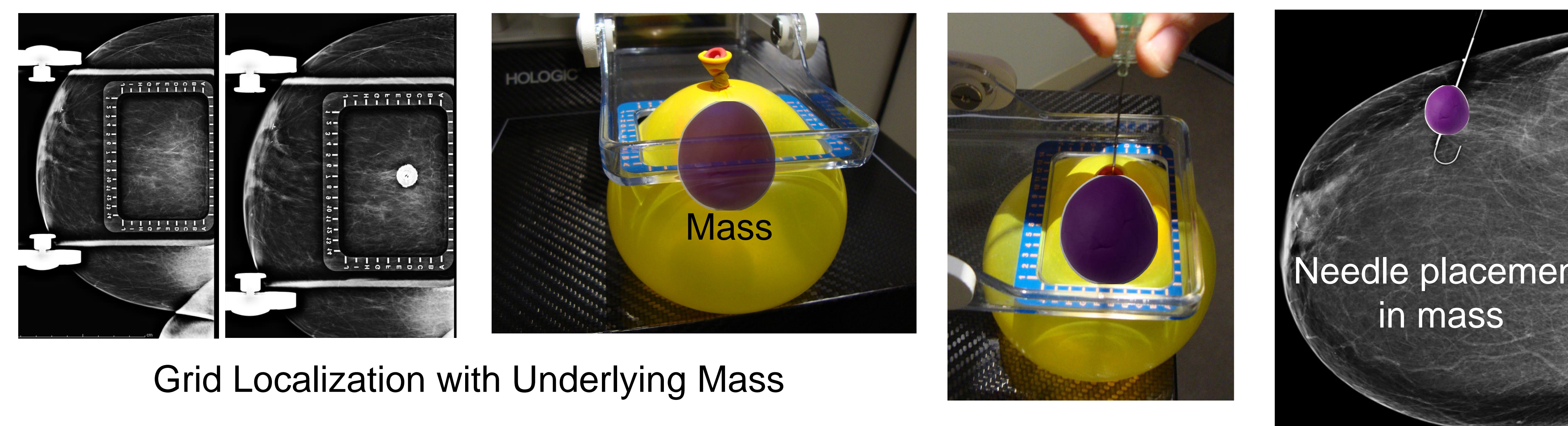
Simulations will aid in encoding the proper technique required to competently perform biopsies when interacting with real patients.

## Results

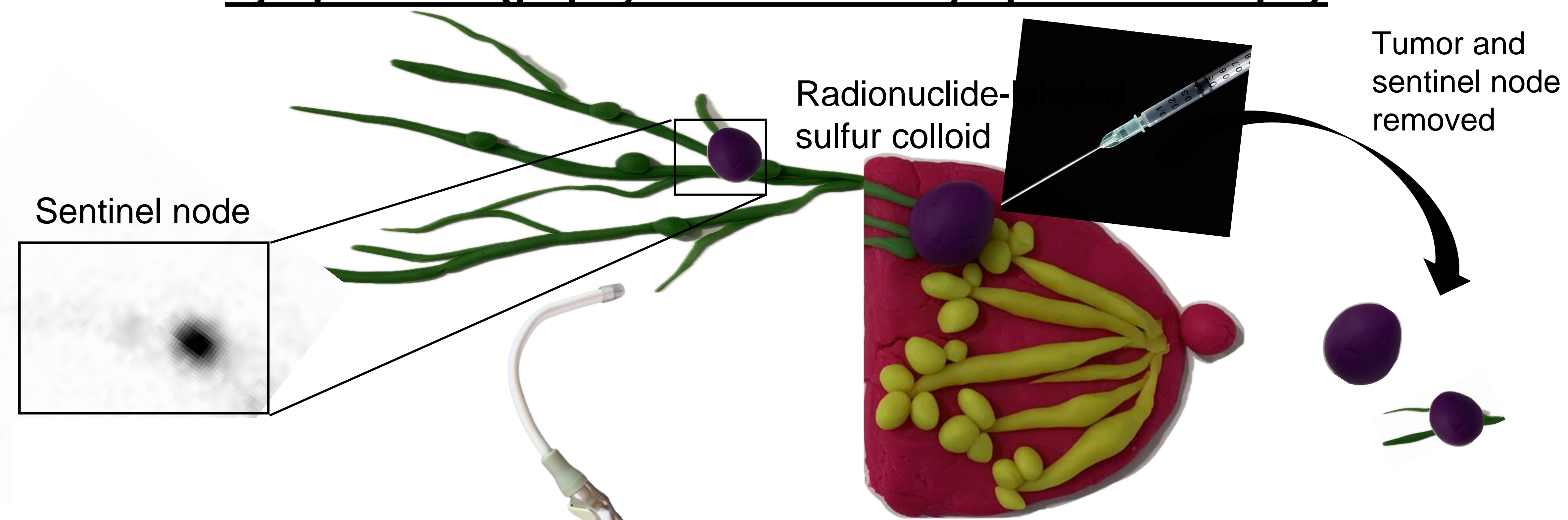
### Ultrasound-guided Aspiration of Cyst



### Stereotactic Biopsy of Breast Mass



### Lymphoscintigraphy and Sentinel Lymph Node Biopsy



We review and provide examples of clay model-based training in interventional mammography techniques for medical residents. By offering a hands-on experience in a controlled environment, residents can develop and refine their skills in breast biopsy procedures. The clay models replicate the anatomy and tactile sensations of breast tissue, providing a realistic training experience.

This innovative training approach prepares residents to handle challenging cases and with improved diagnostic accuracy and biopsy quality. Additionally, this method allows residents to practice communication and patient interaction skills, further enhancing overall quality of care.

## CONCLUSION

The use of clay models to simulate breast biopsy procedures offers a valuable training tool for residents to develop their interventional mammography techniques. It provides a safe and realistic learning environment, enabling residents to develop the skills necessary for accurate and compassionate patient care.

By incorporating clay model-based training into residency programs can improve the quality of breast healthcare services provided to patients.

## REFERENCES

Versaggi, S. L. (2023, April 17). *Breast biopsy*. StatPearls [Internet]. <https://www.ncbi.nlm.nih.gov/books/NBK559147/>