ATEC® MRI

Breast Biopsy and Excision System

Increasing Utilization of Preoperative Breast MRI

Preoperative breast MRI can be considered appropriate for all newly diagnosed breast cancer patients.[1,2,3]

- MRI can detect occult disease up to 15%-30% of the time in the breast containing the index malignancy.[3]
- MRI can detect occult malignancy in the contralateral breast in at least 3%-5% of breast cancer patients.[3]

The current NCCN and ACR guidelines recommend that breast MRI be considered for patients with a newly-diagnosed breast cancer to evaluate the extent of ipsilateral disease and to screen the contralateral breast, particularly for women at increased risk for mammographically occult disease.[2, 3]

Multiple Lesions are Common in MRI Breast Biopsy

The ATEC system's speed enables the biopsy of multiple lesions in a single gadolinium session.

Source	Title	Cases with Multiple Lesions	Mean Procedure Time with ATEC (Multiple Lesions)
American Journal of Roentgenology (AJR)	Clinical Experience with MRI-Guided Vacuum-Assisted Breast Biopsy (Liberman et al.) (June 2005)	50%	59 minutes – Single Breast 64 minutes – Bilateral
American Journal of Roentgenology (AJR)	Fast MRI-Guided Vacuum-Assisted Breast Biopsy: Initial Experience (Liberman et al.) (November 2003)	42%	69 minutes

The ATEC System Accuracy and Speed are Unparalleled

In a recent study, the ATEC system had the fastest procedure time in MRI by 10 minutes.[4]
The ATEC system had no discordant results in this study.[4]

	ATEC[4]	Mammotome[4]	Vacora[4]	P[4]
Number of biopsies	54	54	15	
Average procedure time (mins)	38.9	49.6	48.8	
Average number of cores	22	18	8	
Time per core (mins)	2.04	3.66	8.60	<.001
Average lesion size (mm)	17	13	18	
Discordant results	0	2	1	

Biopsies performed with the ATEC system were the quickest, with the greatest number of cores obtained and the shortest time per core.[4]

The ATEC System Pioneered and Leads the Market in MRI-Guided Breast Biopsy

The ATEC MRI-guided biopsy system is clinically proven to be fast, safe and effective in multiple studies:

Source	Title	Accuracy	Time/Lesion
American Journal of Roentgenology (AJR)	MRI-Guided 9-Gauge Vacuum-Assisted Breast Biopsy: Initial Clinical Experience (Liberman et al.) (July 2005)	97%	33 minutes
American Journal of Roentgenology (AJR)	Clinical Experience with MRI-Guided Vacuum-Assisted Breast Biopsy (Lehman et al.) (June 2005)	100%	38 minutes
American Journal of Roentgenology (AJR)	Fast MRI-Guided Vacuum-Assisted Breast Biopsy Initial Experience (Liberman et al.) (November 2003)	96%	35 minutes

In the Liberman 2005 study, one successful MRI-guided breast biopsy was performed in 17 minutes.

References

1. Hollingsworth AB, Stough RG, O'Dell CA, Brekke CE. Breast magnetic resonance imaging for preoperative locoregional staging. Am J Surg 2008;196;389–397.
2. Lehman C, DeMartini W, Anderson B, Edge S. Indications for breast MRI in the patient with newly diagnosed breast cancer. J NCCN 2007;7;2:193-200
3. ACR Practice Guidelines, 2008.
4. J.M. Scarth, W. Teh; Harrow/UK. MR-guided vacuum-assisted core-needle breast biopsy: Comparison of three vacuum-assisted biopsy devices. ECR Congress 2009. Scientific Paper, e-Poster: B-295.

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