**Abstract**

This project explains the role of magnetic resonance imaging (MRI) in performing image-guided breast biopsies. General statistics, breast screening protocols, the biopsy procedure, advantages, disadvantages, and new technology are discussed to highlight why MRI-guided breast biopsies are the method of choice. MRI has a high sensitivity to discern various tissues within the body playing a vital role in early detection of breast cancer. Routine breast MRI is explained to help understand how the patient qualifies for a breast MRI, and how the results help determine the next steps. If the lesion is only seen with MRI, then an MRI-guided breast biopsy is indicated. Despite the advantages, MRI-guided breast biopsies present challenges including a notable rate of benign findings and contraindications such as MRI non-conditional implants. The procedure requires special equipment and accurate techniques. Recent technological advancements are introducing image-guided automated robots (IGAR) as a potential alternative to manual biopsies. Ongoing research seeks to refine breast MRI techniques to enhance the specificity, ensuring its continued effectiveness in early cancer detection and treatment decisions.

*Keywords:* magnetic resonance imaging, MRI-guided breast biopsy, image-guided automated robots.