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To achieve the required technological support when interpreting breast cancer, the current state-of-the-art medical imaging systems should employ a comprehensive approach to image analysis and interpretation. This includes integrating artificial intelligence algorithms to enhance detection accuracy, as well as providing users with tools to perform comprehensive analysis. The detection of breast cancer is a challenging task, and the evaluation of detection performance is critical. As such, several metrics are used to assess the performance of these systems, and these metrics are important for determining the quality of the diagnostic process. In this article, we review these metrics and discuss the importance of selecting the most appropriate one for assessing the performance of medical imaging systems. We also consider the potential impact of these metrics on the clinical practice of radiologists and the quality of care provided to patients. Therefore, further research is needed to establish a comprehensive framework for the evaluation of medical imaging systems, which could help to improve the quality of care provided to patients.

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