



## Clinical Applications of Ultrasound in Cancer Imaging and Treatment

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### Message from the Guest Editor

Ultrasound is a non-invasive, safe, and widely available imaging modality that has been utilized in the diagnosis and management of many medical conditions. In recent years, it has also emerged as an important tool in the detection and characterization of cancer. Ultrasound provides real-time imaging and is particularly useful for evaluating superficial structures and organs such as the breasts, liver, thyroid and lymph nodes. One of the key advantages of ultrasound is its ability to differentiate between malignant and benign lesions. This is achieved by analyzing the echo pattern and other features of the lesion. In addition, ultrasound is used to guide biopsies and other interventional procedures, such as radiofrequency ablation and cryotherapy, with high precision.

Ultrasound is often used in combination with other imaging modalities such as CT and MRI to provide a comprehensive evaluation of cancer. It is also useful in monitoring the response to treatment and detecting tumor recurrence. Overall, ultrasound has tremendous potential in the clinical management of cancer and continues to evolve with the development of new techniques and technologies.





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## Message from the Editor-in-Chief

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