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Research Update on Contrast-Enhanced Ultrasound

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Message from the Guest Editor

As a non-invasive and real-time medical imaging method, contrast-enhanced ultrasound (CEUS) is increasingly being used in clinical practice. CEUS is an effective imaging method to provide early and accurate diagnoses of various diseases in clinical decision-making and treatment. With time intensity curves and quantitative parameters, dynamic contrast-enhanced ultrasound (DCE-US) is helpful to accurately diagnose some small tumors and quantitatively evaluate their early treatment response. With the development of AI technology and machine learning algorithms, various models could be built based on CEUS features with the aim of diagnosing tumors early and making predictions. Up-to-date research on ultrasound contrast agents or microbubbles is also a potential research hotspot in the future.

Keywords

contrast-enhanced ultrasound; diagnosis; treatment; prediction; microbubbles

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