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Ultrasound Technologies in Clinical Medicine: Recent Advances in Gastroenterology

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Message from the Guest Editor

The past 20 years have seen remarkable advancements in ultrasound technology, such as endoscopic ultrasonography, contrast-enhanced sonography, ultrasound elastography, ultrasound attenuation imaging, and artificial intelligence (AI)-aided diagnosis. Ultrasound has many diagnostic advantages compared with other diagnostic modalities (CT, MRI), including real-time visualization, non-irradiation, non-renal toxicity. These technological advances have yielded remarkable progress in diagnostic confidence, especially in gastroenterology. However, on the other hand, a sufficient knowledge of US physics, US technologies used in each method, and a skillful manipulation of machines is needed to avoid misinterpretation of obtained results. The aim and scope of this Special Issue is to explain the basic technologies used in current ultrasound examinations to clarify the diagnostic benefits and limitations in each of the aforementioned ultrasound methods. We will also enumerate some important points for avoiding diagnostic errors encountered frequently in clinical settings.



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Special Issue



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