



Current Applications of Contrast-Enhanced Ultrasound Imaging in Kidney Lesions

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Message from the Guest Editors

The widespread use of abdominal imaging over the last few decades has increased the early detection of kidney lesions. Contrast-enhanced ultrasound (CEUS) allows a dynamic functional imaging of tumor perfusion, offering new diagnostic perspectives compared to traditional US B-mode or color Doppler investigation.

The advantages of using microbubble contrast agents in renal disorders have been largely documented in the literature. In 2008, CEUS was adopted by the European Federation of Societies for Ultrasound in Medicine and Biology (EFSUMB) due to its renal indications. In fact, no approved US contrast agents have renal excretion, and renal insufficiency is not a contraindication for their use.

Moreover, recent studies showed that CEUS can be used to differentiate among lesions with an equivocal enhancement at CT or MRI, suggesting its potential role in the evaluation of renal lesions that deserve further investigation.

The present Special Issue aims to highlight the benefits of using CEUS, as a cost-effective and non-invasive method not requiring the use of ionizing radiation, in the diagnosis of kidney lesions and during the follow-up of non-surgical lesions.





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