



Current Applications of Contrast-Enhanced Ultrasound Imaging in Kidney Lesions

Guest Editors:

Prof. Dr. Gianfranco Vallone

Department of Life and Health,
University of Molise "V. Tiberio",
86100 Campobasso, Italy

Dr. Antonio Tufano

Department of Maternal-Child
and Urological Sciences,
Policlinico Umberto I Hospital,
Sapienza University of Rome,
00161 Rome, Italy

Deadline for manuscript
submissions:

closed (20 April 2024)

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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Editors-in-Chief

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