

Special Issue

Dual-Energy and Spectral CT in Clinical Practice

Message from the Guest Editor

Dual-energy computed tomography (DECT) represents a powerful imaging tool in clinical practice. Thanks to its intrinsic high spatial and contrast resolution, DECT can be used in clinical practice to diagnose brain, body and skeletal disorders in acute and elective settings. In particular, DECT has been widely used to improve the identification of substances from different spectral information by using dedicated algorithms. In musculo-skeletal radiology, DECT has been proposed as an alternative to MRI for the identification of bone marrow edema. Additionally, monoenergetic reconstruction can be employed for the reduction of metal-induced artifacts, or to increase the conspicuity of contrast material within the arterial and venous vessels, or increase the contrast in the abdominal parenchyma. Finally, DECT has been suggested for the quantitative assessment of bone, fat, and muscle composition. The aim of this Special Issue is to provide a comprehensive overview of the role of dual-energy and spectral CT applications in clinical practice. Therefore, researchers in the field of DECT are encouraged to submit their findings as original research articles or reviews to this Special Issue.

Guest Editor

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Deadline for manuscript submissions

closed (31 July 2024)



Journal of Clinical Medicine

an Open Access Journal
by MDPI

Impact Factor 2.9
CiteScore 5.2
Indexed in PubMed



mdpi.com/si/167257

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