

## Special Issue

# Dual-Energy and Spectral CT in Clinical Practice: 2nd Edition

### Message from the Guest Editor

Spectral CT systems represent powerful imaging tools in clinical practice. Due to its intrinsic high spatial and contrast resolution, DECT can be utilized to diagnose brain, body and skeletal disorders in both acute and elective settings. In particular, DECT has been widely employed to improve the identification of substances from different spectral information by using dedicated algorithms. DECT has been proposed as an alternative to MRI in musculo-skeletal radiology. Additionally, monoenergetic reconstructions can be employed in order to reduce metal-induced artifacts, or to increase the conspicuity of contrast material within the arterial and venous vessels or to increase the contrast in the abdominal parenchyma. In addition, DECT and spectral CT systems has been used to image oncologic patients via a qualitative and quantitative approach. In recent years, photon-counting CT has proven to be a reliable method in the complex diagnosis of cardiovascular diseases, not only for the detailed evaluation of coronary arteries but also for functional assessments. Additionally, it represents an extremely promising technique in the fields of oncology and musculoskeletal imaging.

---

### Guest Editor

Dr. Giovanni Foti

Department of Radiology, IRCCS Sacro Cuore Don Calabria Hospital, Negrar di Valpolicella, 37042 Verona, Italy

---

### Deadline for manuscript submissions

closed (20 March 2026)



## Journal of Clinical Medicine

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.9  
CiteScore 5.2  
Indexed in PubMed



[mdpi.com/si/228044](https://mdpi.com/si/228044)

*Journal of Clinical Medicine*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[jcm@mdpi.com](mailto:jcm@mdpi.com)

[mdpi.com/journal/](https://mdpi.com/journal/)

[jcm](https://www.mdpi.com/journal/jcm)





# Journal of Clinical Medicine

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.9  
CiteScore 5.2  
Indexed in PubMed



[mdpi.com/journal/](https://mdpi.com/journal/)

[jcm](https://mdpi.com/journal/jcm)



## About the Journal

### Message from the Editorial Board

There has been an explosion of gene and target based research and therapeutics in the multitude of fields that compose clinical medicine. The *Journal of Clinical Medicine's* (JCM) staff and editorial board are dedicated to providing cutting edge, timely, and peer-reviewed articles covering the diverse subspecialties of clinical medicine. The journal publishes concise, innovative, and exciting research articles as well as clinically significant articles and reviews that are pertinent to the myriad of disciplines within medicine. The articles published are relevant to both primary care physicians and specialists. The journal's full-texts are archived in PubMed Central and indexed in PubMed. Please consider submitting your manuscripts for publication to our journal and check us out on-line!

---

### Editors-in-Chief

Prof. Dr. Emmanuel Andrès

Internal Medicine Department, University Hospital Strasbourg, 67081  
Strasbourg, France

Prof. Dr. Kent Doi

Department of Emergency and Critical Care Medicine, The University of  
Tokyo, Tokyo, Japan

---

### Author Benefits

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, CAPlus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q1 (Medicine, General and Internal) / CiteScore - Q1 (General Medicine)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.5 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the second half of 2025).