

Empyrean Press Book Publication House

The Comprehensive Guide to Ultrasound Imaging: From Fundamentals to Innovations

ISBN Number: 978-81-979332-9-5

Call for Book Chapter

Scope- The book “**The Comprehensive Guide to Ultrasound Imaging: From Fundamentals to Innovations**” delves deeply into both fundamental ideas and cutting-edge advances in ultrasound technology. It begins by explaining the fundamentals of ultrasound physics, such as tissue acoustics and image capture methods, before moving on to examine other ultrasound modalities like 2D, 3D, 4D imaging, and Doppler ultrasound. The book discusses a variety of therapeutic applications, such as obstetric, cardiovascular, abdominal, and musculoskeletal imaging, as well as emergency and point-of-care uses. It also dives into the most recent advances in the area, such as artificial intelligence in diagnostics, portable ultrasound equipment, and the integration of ultrasound with other imaging technologies.

Submissions are accepted in the following areas, but not limited to:

- i. Overview of ultrasound imaging principles
- ii. Importance and relevance in modern medicine
- iii. Fundamentals of Ultrasound Physics- Acoustic principles, Interaction of sound with tissue, Image formation and resolution, Transducer technology

- iv. Ultrasound Equipment and Technology
- v. Modalities of Ultrasound Imaging- 2D ultrasound, 3D, 4D
- vi. Clinical Applications in Obstetrics and Gynecology
- vii. Cardiovascular Ultrasound (Echocardiography)
- viii. Abdominal Ultrasound and Organ Imaging
- ix. Musculoskeletal Ultrasound
- x. Point-of-Care Ultrasound (POCUS) and Emergency Imaging
- xi. Advanced Ultrasound Imaging Techniques
- xii. Ultrasound-Guided Interventions and Procedures
- xiii. Innovations and Emerging Technologies in Ultrasound
- xiv. Best Practices in Ultrasound Imaging- Image quality optimization techniques, Patient safety and minimizing risks, Standard protocols for different clinical scenarios

Submission - Please send the one-page write-up, which includes the chapter title, an abstract (maximum 250 words), five key words, and the author's affiliation, to the mentioned email address. Further instructions regarding the full chapter submission will be provided upon acceptance.

Submission Information

Submission email –

info.empyreanpress@gmail.com

Contact No & Whatsapp- +919649851557

Important Dates-

Abstract Submission Deadline- 5/11/2024

Chapters Submission-20/11/2024

Editor

Dr Sangram Panda

Associate Professor
Department of Radiology
Kaling Institute of Medical Science
Bhubaneswar