

1. Record Nr.	UNINA9910300221003321
Titolo	Musculoskeletal Ultrasonography in Rheumatic Diseases // edited by Yasser El Miedany
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2015
ISBN	3-319-15723-X
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (391 p.)
Disciplina	610 616.07 616.07543 616723
Soggetti	Rheumatology Ultrasonics Pathology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Foreword; Preface; Contents; Contributors; Chapter-1; Fundamentals of Musculoskeletal Ultrasound; Introduction; Basic Physics; Color Doppler; Image Control; Ultrasound Equipment; Probe Orientation and Handling; Scanning Technique and Image Optimization; Terminology; Artifacts; References; Chapter-2; Pitfalls in Musculoskeletal Ultrasound; Introduction; Pitfalls Due to GS Artifacts; Artifacts Due to Transducer Position; Artifacts Due to Interaction of Beam with Tissues; Attenuation Artifacts; Shadowing; Pitfalls Due to Doppler Artifacts; Mirror Doppler Artifact; Reverberation Doppler Artifact Pitfalls Due to Human Errors (GS and Doppler) Drop-Out Pitfall; Insufficient Knowledge of the Machine Settings: Gain-Focus-Depth Adjustment; Inaccurate Handling of the Transducer; Insufficient Knowledge of Local Anatomy; Pitfalls Due to Machine Properties and Errors; Artifacts Useful for Medical Practice; Concluding Remarks; References; Chapter-3; Rheumatoid Arthritis; Introduction; Ultrasound Findings; Clinical Applications; Diagnosis; Monitoring Disease Activity; Guided Intra-Articular Procedures; Conclusions; References; Chapter-4;

Ankylosing Spondylitis; Introduction; Applied Anatomy  
Sonographic Pattern of Enthesitis; Tips for US Assessment of Enthesitis;  
Enthesitis Scoring Tools; Subclinical Versus Clinical Enthesitis;  
Differential Diagnosis of Enthesitis; US as an Outcome Measure;  
Imaging of the Axial Skeleton; US of the Sacroiliac Joint; US-Guided  
Injections in Sacroiliitis; Sonoelastography and Ankylosing Spondylitis;  
MRI Versus US in Ankylosing Spondylitis; References; Chapter-5;  
Psoriatic Arthritis; Enthesitis in PsA; Dactylitis in PsA; Peripheral  
Arthritis; Axial Disease; Skin and Nails; US-Guided Procedures in  
Psoriatic Arthritis  
The Role of US in Early Diagnosis, Monitoring of Disease Activity, and  
Therapeutic Response in PsA; References; Chapter-6; Osteoarthritis;  
Introduction; Clinical Applications; Sonographic Findings; Cartilage  
Assessment; Joint Effusion; Synovial Hypertrophy; Osteophytes and  
Erosions; Other Articular and Periarticular Findings;  
Measurements/Subclinical Assessment; Response to Therapy;  
Conclusion; References; Chapter-7; Crystal-Induced Arthritis;  
Introduction; Gout; Nonspecific Features in Gout; Synovial Fluid;  
Synovial Proliferation and Hypervascularization  
Articular Cartilage-"Double Contour Sign"; Bone Erosions; Specific US  
Features in Gout; MSU Deposits (Tophi and Aggregates); Asymptomatic  
Hyperuricemia; US-Guided Interventions; Calcium Pyrophosphate  
Deposition Disease; Hyaline Cartilage; Fibrocartilage; Synovial Fluid;  
Soft Tissues; Basic Calcium Phosphate Crystals Deposition Disease;  
Calcific Tendinopathy of the Rotator Cuff; Milwaukee Shoulder; Great  
Trochanteric Pain Syndrome; Oxalate Crystal Deposition Disease;  
Conclusions; References; Chapter-8; Skin, Nail, and Hair in  
Rheumatology ; Introduction  
Normal Ultrasound Anatomy of the Skin, Nail, and Hair

---

## Sommario/riassunto

This book is a practical and evidence-based guide to performing clinical musculoskeletal ultrasound for patients suffering from various rheumatic diseases. It represents the best current thinking on the role of ultrasonography in the assessment of pathology, diagnosis, and treatment of these disorders. Following introductory chapters covering fundamental techniques and pitfalls of musculoskeletal ultrasound, the book discusses the uses of ultrasound to identify and monitor different rheumatic conditions, including rheumatoid arthritis, ankylosing spondylitis, osteoarthritis, pediatric musculoskeletal disorders, carpal tunnel syndrome, and inflammatory conditions. It concludes with a chapter dedicated to ultrasound-guided interventional procedures, with illustrations depicting patients and probe positioning. Featuring contributions from a large international group of leaders in musculoskeletal ultrasonography, *Musculoskeletal Ultrasonography in Rheumatic Diseases* is an authoritative reference for rheumatologists, sonographers, radiologists, and orthopedic specialists.

---