



Atlas of ultrasound-guided procedures in interventional pain management /

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editor

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With a focus on anatomy and sonoanatomy, this beautifully illustrated updated edition captures the latest advances in the rapidly growing field of ultrasound-guided pain medicine and MSK procedures. This atlas is divided into seven sections that provide an overview and focus on interventional approaches and advancements. Authored by international experts, each clinical chapter features a maximal number of instructive illustrations and sonograms and provides a description of sonoanatomy, instructions on performing the procedure and how to confirm appropriate needle placement. This book will help encourage and stimulate physicians to master approaches in interventional MSK and pain management

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Contenido: Intro; Dedication; Foreword; Preface; Acknowledgments; Contents; Contributors; Part I: Imaging in Interventional Pain Management and Basics of Ultrasonography Ultrasound Wavelength and FrequencyUltrasound-Tissue Interaction; Recent Innovations in B -- Mode Ultrasound; Conclusion; References; 3: Essential Knobology for Ultrasound-Guided Regional Anesthesia and Interventional Pain Management; Introduction; Frequency and Probe Selection; Depth; Gain; Time Gain Compensation; Focus; Presets; Color Doppler; Power Doppler; Compound Imaging; Tissue Harmonic Imaging; Optimization Button; Freeze Button and Image Acquisition; References Training with Adequate MentorshipPhantoms; High-Fidelity Simulation; Combined Ultrasound and Fluoroscopic Phantom Simulators; Procedural Needle: Related Visibility Factors; Basic Sonography and Needle Image Interpretation; Acoustic Impedance as the Basis for Procedure Needle Visualization; Size (Gauge) of the Procedure Needle and Its Echogenicity; The Skin Insertion Site Selected and Angle of Procedure Needle Passage; Echogenic Procedure Needles; Procedure Needle Tip; The Ultrasound Device and Procedure Needle Visibility; Ultrasound Imaging Artifacts and Procedure Needle Visibility Impact of Various Sonographic Modes on Procedure Needle VisibilityCompound Spatial and Frequency Image Reconstruction Following Acoustic Beam Steering and

Variable Frequency; Frequency of the Ultrasound Probe (AKA Depth) Acoustic Power and Gain; Time Gain Compensation and Harmonic Imaging; Brightness, Motion, and Doppler Modes; 3D and 4D Ultrasound Imaging; Recent Advances in Ultrasound Imaging and Procedure Needle Visibility; Needle-Probe Alignment; Need for Procedure Needle and Ultrasound Probe Alignment; ."In-Plane" and "Out-Of-Plane" Needle Approach: Classical Probe-Needle Interpositions Oblique Plane Needle Approach for Ultrasound-Guided Pain ManagementBiplane Needle Imaging Approach for Ultrasound-Guided Pain Management; Mechanical and Optical Procedure Needle Guides; Advanced Procedure Needle Positioning Systems; The "ART" of Scanning for Better Procedure Needle Visualization; Ergonomics for Better Procedure Needle Visibility; Enhancement and Techniques to Improve Procedure Needle Localization; Basic Sonographic Effect of Enhancement; Enhancement with Priming, Insertion of Stylet or Guide Wire, and Vibration; Hydrolocalization of the Procedure Needle

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