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Nota di contenuto	Evolution of Regenerative Medicine in Managing Musculoskeletal and Spinal Disorders. - Principles of Evidence-Based Medicine -- Evidence-Based Regenerative Medicine -- Biologic and Cellular Therapies in the Clinical Setting: Standardization and Collaboration. - Fluoroscopy in Regenerative Medicine -- Principles of Ultrasound Imaging in Musculoskeletal Medicine. - Platelet Rich Plasma -- Platelet Lysate. - Bone Marrow Concentrate -- Adipose Tissue-Derived Stromal Vascular Fraction -- Wharton Jelly MSC for Treating Local and Systemic Illnesses -- Non-Autologous Biologics -- The Role of Exosomes in Regenerative Medicine -- Platelet Rich Plasma, Bone Marrow Concentrate and Adipose Derived Cells: Quantitative Analysis and Quality Control – What Does it All Mean?. - Antiplatelet and Anticoagulant Therapy in Regenerative Medicine -- Pathophysiology and Mechanisms of Chronic Musculoskeletal Pain. - Regenerative Medicine for the Shoulder --

Regenerative Medicine for the Elbow -- Regenerative Therapy of Hip and Related Joints, Ligaments, and Tendons -- Regenerative Medicine for Knee Joint Disorders -- Regenerative Therapy of Ankle and Foot and Related Joints, Ligaments and Tendons -- Radiology of the Spine for the Interventionalist -- Intradiscal Injections of Biologics -- Epidural Administration of Biologics. - Lumbar Facet Joints and Intraarticular Injection of Biologics. - Cervical Facet Joints and Intraarticular Injection of Biologics. - Thoracic Facet Joints and Intraarticular Injection of Biologics. - Regenerative Medicine for Sacroiliac Joint Dysfunction. - Regenerative Therapy for Chronic Pelvic Pain Syndromes. - The ABC of Stem Cell Therapies for Neurological Disorders. - Nerve Blocks for Regional Anesthesia for Regenerative Interventional Treatment -- Rationale and Clinical Guidelines for Post-Orthobiologic Rehabilitation -- Regulatory Aspects of Regenerative Therapy and Stem Cell Therapy: Current Perspectives -- Ethical and Policy Issues in Practices of Regenerative Medicine for the Treatment of Chronic Pain.

Sommario/riassunto

Regenerative medicine is an emerging and integral part of interventional pain management and meets definitions of interventional pain management and interventional techniques. Interventional techniques are defined as minimally invasive procedures including, percutaneous precision needle placement, with placement of drugs in targeted areas or ablation of targeted nerves; and some surgical techniques such as laser or endoscopic discectomy, intrathecal infusion pumps, and spinal cord stimulators, for the diagnosis and management of chronic, persistent, or intractable pain. On the same token, interventional pain management is defined as the discipline of medicine devoted to the diagnosis and treatment of pain related disorders principally with the application of interventional techniques in managing subacute, chronic, persistent, and intractable pain, independently or in conjunction with other modalities of treatment. This new edition brings a wide array of information for interventional pain physicians and other physicians practicing regenerative medicine with its applications in managing chronic pain and other disorders. The structure of the book begins with an introduction of the subject, followed by sections on historical context, pathophysiology, applicability of regenerative medicine with its evidence base, anatomy, technical aspects, complications, and precautions for each topic when available and applicable. From across the globe, leading experts in their respective fields contributed chapters on specific topics to present a cogent and integrative understanding of the field of regenerative medicine as applicable for interventional pain physicians. This comprehensive text achieves its goal of providing an evidence-based approach to application of principles of regenerative medicine in managing chronic pain of spinal, neurological, and musculoskeletal origins.
