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Nota di contenuto	Platelet Rich Plasma and its Growth Factors: The State of the Art -- Platelet-Rich Plasma (PRP) as a Therapeutic Agent: Platelet Biology, Growth Factors and a Review of the Literature -- Preparing the Soil: Practical Cellular Biochemistry for Regenerative Medicine -- Challenges and a Feasible Strategy for Studies and Standardization of Platelet-Rich Plasma -- Platelet-Rich Plasma and Tissue Engineering -- Therapy with Use of Platelet-Rich Plasma in Orthopedics and Sports Traumatology - Literature Review, Evidence and Personal Experience -- The Use of PRP Injections and Stem Cells in an Office Setting -- Platelet Rich Plasma Practical Use in Non-Surgical Musculoskeletal Pathology -- Platelet-Rich Plasma: Clinical Experience -- Platelet-Rich Plasma (PRP) In Ligament and Tendon Repair -- Platelet Rich Plasma (PRP) in Osteoarthritis -- PRP in the Ambulatory Therapy of Tendinopathy of the Elbow, Knee and Foot -- Platelet-Rich Plasma and Biocellular Grafts -- Disc Regeneration with Platelets and Growth Factors -- Use of Platelet-

Sommario/riassunto

Rich Plasma (PRP) in Treating Chronic Wounds -- The Use of Platelet-Rich Plasma in Orthopaedic Injuries -- Rehabilitation after Platelet-Rich Plasma Injections for Tendinopathy -- Platelet Rich Plasma on Pain Management -- PRP Experience in MOR Institute – Brazil (iMOR – Research Institute for Sports Medicine, Orthopedics and Regeneration).

Platelet-Rich Plasma (PRP) has gained tremendous popularity in recent years as a treatment option for specialties including Orthopedics, Dentistry, Sports Medicine, Otorhinolaryngology, Neurosurgery, Ophthalmology, Urology, Vascular, Cardiothoracic and Maxillofacial Surgery, and Veterinarian Medicine. Nowadays, PRP and Stem Cell Science have added an exciting dimension to tissue repair. This book begins by giving the reader a broad overview of current progress as well as a discussion of the technical aspects of preparation and therapeutic use of autologous PRP. It is followed by a review of platelet structure, function and major growth factors in PRP (PDGF and TGF). The third chapter outlines the basic principles of biochemical cellular metabolism that increases the efficacy of PRP. Analogous to the preparation of soil for a garden, restoring cellular health should be the first consideration in Regenerative Medicine. Standardization of PRP preparation to clinical use still remains a challenging prospect. In this sense, a feasible strategy for studying PRP preparation is illustrated, which also allows to modulate and tailor the quality of PRP for further clinical applications. The science behind PRP and stem cells, on tissue regeneration, cell proliferation and mesenchyme stem-cells are emphasized and reviewed. Various specific uses of PRP are described with detailed illustrations of various personal experiences mainly in orthopedic injuries, ligament and tendon repair, degenerative diseases, sports medicine, chronic wound healing as well as rehabilitation aspects in tendinopathy. Expertly written by leading scientists in the field, this book provides for beginners and experienced readers scientific fundamentals, the state of art of PRP, specific uses and personal experiences with a practical approach and reference for current trends in use. Finally, this book paves the way for future developments.
