

# Management of Proximal Interphalangeal Joint Fractures and Dislocations

**Shrikant J. Chinchalkar, BScOT, OTR, CHT**

*Hand and Upper Limb Centre  
St. Joseph's Health Care  
London, Ontario, Canada*

**Bing Siang Gan, MD, PhD, FRCSC, FACS**

*Hand and Upper Limb Centre  
St. Joseph's Health Care  
University of Western Ontario  
London, Ontario, Canada*

**ABSTRACT:** Proximal interphalangeal joint (PIP) injuries are among the most common in the hand and their severity is often underestimated. These injuries often lead to prolonged disability, pain, and stiffness. Appropriate treatment includes a thorough assessment, physical examination, and directed imaging. Such an approach should lead to a rational treatment plan that focuses on the rehabilitation of all damaged components, including osseous, articular, and soft tissue structures. This article reviews all elements in the management of PIP injuries and introduces an assessment method for PIP injuries based on the mechanisms of injury rather than primarily on the basis of radiographic findings.

J HAND THER. 2003;16:117-128.

The proximal interphalangeal joint (PIP) is the most commonly injured joint in the hand, despite its inherent articular and ligamentous stability. The PIP joint is exposed to significant forces during vocational, avocational, and athletic endeavors. Injuries often are labeled as "finger sprains," and their significance is underestimated. Adequate diagnosis of the extent of damage to the joint is hampered because bystanders at the time of injury relocate displaced joint injuries before radiographic investigation, and appropriate medical attention often is delayed after these "treatments in the field." PIP joint fractures and dislocations now are being recognized as complicated joint injuries requiring careful attention to address static and dynamic bone and soft tissue disruption. The existing classifications of PIP joint injuries divide injuries according to their anatomic site and as being stable and unstable and have been augmented by several classifications that quantify joint articular surface involvement and static and dynamic joint subluxation, taking soft tissue disruptions into consideration. This article reviews the concept of classifying PIP injuries according to their causative mechanism and their biomechanical consequences for the joint. We correlate the mechanism of injury to many existing classifications and discuss the principles of our treatment approach.

## ANATOMIC CONSIDERATIONS

The PIP joint is classified as a hinge joint. The asymmetric congruity of the condyles and the opposing articular surfaces of the base of the middle phalanx in their specific ligamentous arrangements also provide a helicoid motion, allowing the fingers to converge toward the tubercle of the scaphoid.<sup>1</sup> The adaptability of the hand to grasp a variety of shapes and sizes not only arises from the flexion-extension curve, but also from its execution along an equiangular spiral.<sup>2</sup> This adaptability of the hand may be significantly lost after injury to the PIP joint, if normal or near-normal convergence and range of motion (ROM) are not achieved.

The PIP joint is completely encapsulated by joint capsule. In addition, stability is provided dorsally by the extensor tendon central slip and lateral bands; ulnarly and radially, by collateral, accessory collateral ligaments and the conjoined lateral bands; and volarly, by the volar plate, flexor tendons, and the fibro-osseous flexor tendon sheath. All of these structures serve as static stabilizers of the joint in extension and lead to proper seating of the condyles of the proximal phalanx in the mirrored concave surfaces of the base of the middle phalanx. The volar plate and the accessory collateral ligaments act as a dynamic restraint to extension, also contributing to the lateral stability. The ligamentous and tendinous structures, bony configuration, and muscular forces across the joint give the joint a strong dynamic stability throughout the arc of motion. Ligamentous disruption, volar plate avul-

Correspondence and reprint requests to: Shrikant J. Chinchalkar, BScOT, OTR, CHT, Department of Hand Therapy, Hand and Upper Limb Centre, St. Joseph's Health Care, 268 Grosvenor Street, London, Ontario, Canada N6A 4L6; e-mail: <shrikant.chinchalkar@sjhc.london.on.ca>.

# Management Of Fractures Dislocations 3ed

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**The Management of Fractures, Dislocations, and Sprains** John Albert Key, Hugh Earle Conwell, 1951      **National Library of Medicine Audiovisuals Catalog** National Library of Medicine (U.S.),      **Reichman's Emergency Medicine Procedures, 3rd Edition** Eric F. Reichman, 2018-12-25 The most clear complete and easy to understand review of emergency medicine procedures enhanced by an animation library and more than 1 500 full color photographs Doody's Core Titles for 2021 Reichman's Emergency Medicine Procedures Third Edition is written to provide a detailed step by step approach to more than 200 procedures performed in an emergency or acute care setting This trusted classic will provide medical students residents advanced practice clinicians and the seasoned emergentologist with a reliable one stop procedural reference on which to base clinical practices and technical skills The Third Edition is enhanced by added chapters algorithms clinical pictures radiographs tables and coverage of cutting edge technological advancements Features Organized into 16 sections each representing an organ system an area of the body or a surgical specialty Each chapter is devoted to a single procedure Chapters have a similar format that encompasses Relevant anatomy and pathophysiology Indications and contraindications for the procedure Preparation for the patient including consent anesthesia and analgesia Step by step description of the procedure Cautions that indicate common problems Alternative techniques and helpful hints Aftercare and follow up Potential complications Summary of critical information More than 1 500 full color photographs Companion online library of animations demonstrates approximately 40 common or difficult procedures Includes both common and infrequently encountered procedures Important evidence based recommendations throughout Helpful pedagogy includes key information cautions and important facts highlighted in bold The techniques presented in this book will dramatically expand your understanding of emergency medicine procedures and most importantly your ability to deliver positive patient outcomes

*Sports-related Fractures, Dislocations and Trauma* Morteza Khodaei, Anna L. Waterbrook, Matthew Gammons, 2020-04-16 This exciting user friendly text covers everything sports medicine and emergency clinicians need to know when encountering sports related injuries and trauma whether on the field or in the office Divided into eight thematic sections all aspects of musculoskeletal and other trauma care are described in detail with each chapter including key points for quick reference The opening section presents general approaches to sports related trauma from initial evaluation and acute management to stabilization anesthesia and imaging The different types of fractures and dislocations as well as musculoskeletal healing complications are covered in part two The next three sections then take in depth looks at bone and joint trauma in the upper extremity lower extremity and axial skeleton respectively Soft tissue and other sports related trauma comprise parts six and seven from tendons ligaments nerves and more to chest head and facial injuries The final and largest section presents sports specific injuries covering more than 30 individual and team activities from baseball basketball and hockey to swimming sailing and triathlon Throughout copious figures photographs and tables enhance and advance the content for a complete

well rounded examination of the field Comprehensive but not complex Sports related Fractures Dislocations and Trauma is a practical high yield manual for sports medicine and emergency care specialists primary care physicians and any other professionals caring for athletes both on the field and in the office

**A Practical Guide to Management of Femoral Head Fracture-Dislocation** Ramesh Kumar Sen,Sujit Kumar Tripathy,2025-10-02 The book is a comprehensive resource on the complex and challenging condition of Pipkin fracture dislocation It provides a detailed exploration of the anatomy diagnosis and management of Pipkin fractures offering essential insights and practical guidance for both experienced orthopedic surgeons and novice medical professionals Integrating case studies and real world examples the book illustrates key concepts and outcomes ensuring a thorough understanding of both theoretical and practical aspects The book begins with a thorough overview of the involved anatomical structures followed by an examination of injury mechanisms and classification systems structured for ease of learning and application Each chapter meticulously addresses various diagnostic techniques including advanced imaging modalities and details both conservative and surgical treatment options Written by leading orthopedic experts it presents a balanced perspective on contemporary treatment protocols and highlights the latest advancements in surgical techniques and post operative care Illustrated with high quality images and diagrams the book is an invaluable reference for clinicians aiming to enhance their knowledge and expertise in managing this complex injury It targets orthopedic surgeons trauma specialists and medical students

*Cumulated Index Medicus* ,1994

**Fractures** Donald A. Wiss,2006 Completely updated for its Second Edition this acclaimed Master Techniques in Orthopaedic Surgery volume presents the most advanced successful surgical techniques for fractures of the upper extremity lower extremity pelvis and acetabulum The world s foremost surgeons describe their preferred techniques in step by step detail explain the indications and contraindications identify pitfalls and potential complications and offer pearls and tips for improving results The book is thoroughly illustrated with full color sequential surgeon s eye view intraoperative photographs as well as drawings by noted medical illustrators This edition includes nine new chapters Clavicle Fractures ORIF Femoral Neck Fractures Arthroplasty Intertrochanteric Hip Fractures IM Hip Screw Hip Arthroplasty for Intertrochanteric Hip Fractures Femoral Shaft Fractures Retrograde Nailing Supracondylar Femur Fractures ORIF Proximal Tibial Fractures Locked Plating Tibial Shaft Fractures Spatial Frame Periprosthetic Femur Fractures Seventeen chapters have been rewritten by new contributing authors

*Index Medicus. Third Series* ,1922

The Treatment of Fractures with Notes Upon a Few Common Dislocations Charles Locke Scudder,1911

Non-Invasive Respiratory Support, Third edition Anita K. Simonds,2007-09-28

The field of non invasive ventilation continues to expand rapidly since publication of the second edition of Non Invasive Respiratory Support new controversies have arisen and numerous practical guidelines have been issued This expanded third edition with new international contributors has been fully revised and updated It builds on the success of the highly regarded previous editions detailing the role of non invasive ventilation NIV in acute and chronic ventilatory failure and the outcome of

the intervention across a wide range of respiratory disorders in adults and children The book provides clear step by step evidence based guidance on the practicalities of all the principal techniques and advice is offered on indications for NIV how to choose equipment when to initiate therapy and when to discontinue therapy From a highly respected international author team this book provides invaluable guidance to respiratory physicians intensivists anaesthetists nurses physiotherapists and medical technicians working in this area      **Review of Orthopaedics E-Book** Mark D. Miller,Stephen R.

Thompson,Jennifer Hart,2012-04-23 At all levels of orthopaedic training and practice Review of Orthopaedics by Mark D Miller MD is an ideal state of the art resource for efficient review of key orthopaedic knowledge and board prep Thoroughly updated this edition helps you ensure your mastery of the very latest scientific and clinical information Consult this title on your favorite e reader with intuitive search tools and adjustable font sizes Elsevier eBooks provide instant portable access to your entire library no matter what device you re using or where you re located Focus on the concepts you are most likely to be tested on Every chapter has been carefully compared to the most recent OITE and ABOS self assessment exams to ensure that the content covers everything you need to pass and nothing you don t Learn from the best Study confidently summaries and review questions compiled by noted national and international subspecialists Efficiently retain and synthesize information thanks to a concise at a glance format with numerous illustrations and summary boxes throughout the book that highlight salient top testing facts and condense complex concepts to assist you in understanding key material presented in each chapter Hone your skills with succinct yet thorough synopses of a wide range of key operative techniques Effectively understand and review key concepts through abundant full color tables and images including pathology slides Test your knowledge with multiple choice review questions Spend more time studying and less time searching Testable material is now bolded throughout and summarized at the end of each chapter for quick reference to essential information Easily locate additional sources for study with carefully selected bibliographies organized by topic Access the full contents online fully searchable at expertconsult com with links to full reference lists and original PubMed source material      **The Wrist** William P. Cooney,2011-12-21 The Wrist Diagnosis and Operative Treatment Second Edition is the most comprehensive text and reference on diagnosis and treatment of wrist disorders Written by world renowned experts from the Mayo Clinic and other leading institutions this definitive text covers examination techniques for the wrist and diagnosis and treatment of fractures dislocations carpal instability distal radius injuries rheumatoid problems soft tissue disorders and developmental problems The treatment chapters provide extensive coverage of current surgical techniques More than 3 000 illustrations complement the text This thoroughly updated Second Edition has many new contributors including several international wrist investigators New chapters cover wrist outcome assessment scores treatment subtypes for carpal instability tenodesis capsulodesis and intercarpal fusions denervation procedures acute and chronic instability of the distal radioulnar joint and evaluation and treatment of axial forearm instability Essex Lopresti lesion A companion website includes the fully searchable

text and an image bank      *A Manual of surgical treatment v.3, 1899-1903* Sir William Watson Cheyne,1900      **Surgical Hip Dislocation** Michael Leunig,Hannes A. Rüdiger,Ira Zaltz,Reinhold Ganz,2025-02-18 This book sheds new light and comprehensively discusses all aspects of surgical hip dislocation SHD a surgical technique which has indeed granted access to areas not accessible with standard procedures thus allowing intra articular osteotomies Filling a gap in literature this book combines detailed anatomical knowledge as a prerequisite to avoid iatrogenic complications and practical guidance in order to successfully manage these complex techniques Pioneers and renowned experts in the field share best practices tips and tricks from patient positioning to anesthesia and surgical steps to achieve the maximal benefit for the patient and minimize any complication risk Orthopedic surgeons and residents with an interest in surgical hip preservation will find this book to be an excellent richly illustrated guide to the subject      **Spinal Cord Medicine, Third Edition** Steven Kirshblum,Vernon W. Lin,2018-12-28 In this comprehensive clinically directed reference for the diagnosis and treatment of persons with spinal cord injury and related disorders editors of the two leading texts on spinal cord injury SCI medicine have joined together to develop a singular premier resource for professionals in the field Spinal Cord Medicine Third Edition draws on the expertise of seasoned editors and experienced chapter authors to produce one collaborative volume with the most up to date medical clinical and rehabilitative knowledge in spinal cord injury management across the spectrum of care This jointly configured third edition builds on the foundation of both prior texts to reflect the breadth and depth of the specialty Containing 60 state of the art chapters the book is divided into sections covering introduction and assessment acute injury management and surgical considerations medical management neurological and musculoskeletal care rehabilitation recent research advances system based practice and special topics New and expanded content focuses on the significant changes in the epidemiology of traumatic injury the classification of SCI and the latest medical treatments of multiple medical complications In addition chapters discuss new surgical considerations in acute and chronic SCI and the many advances in technology that impact rehabilitation and patients overall quality of life With chapters authored by respected leaders in spinal cord medicine including those experienced in spinal cord injury medicine physical medicine and rehabilitation neurology neurosurgery therapists and researchers this third edition goes beyond either of the prior volumes to combine the best of both and create a new unified reference that defines the current standard of care for the field Key Features Covers all aspects of spinal cord injury and disease with updates on epidemiology of spinal cord injury the classification of spinal cord injury newer methods of surgical intervention post injury updates to medications advances in rehabilitation and changes in technology Brings together two leading references to create a singular evidence based resource that defines the current standard of care for spinal cord medicine Presents the most current medical clinical and rehabilitation intelligence Chapters written by experts across the spectrum of specialists involved in the care of persons with spinal cord injury Includes access to the downloadable ebook      **Pediatric Elbow Fractures** Joshua M. Abzug,Martin J. Herman,Scott Kozin,2018-02-28 This unique text focuses

entirely on the treatment of pediatric elbow fractures which encompass the vast majority of operative cases for pediatric fracture care and which can be challenging to even the most experienced surgeon. The book opens with a survey of the basic anatomy and development of the elbow as well as examination and imaging techniques. Both acute and chronic fractures are then discussed in detail beginning with a brief outline of the epidemiology, classification and work up of each fracture but the main focus will be on providing a master's approach to the surgical treatment of these injuries including supracondylar fractures, capitellar shear fractures, elbow dislocations, Monteggia fracture dislocations and cubitus varus and valgus among others. Numerous photographs, figures and videos will enable the orthopedic surgeon, hand surgeon and trauma surgeon to be fully prepared to treat any of these fractures.

*Surgery, Its Principles and Practice: Bones; joints; fractures; dislocations, orthopedics; muscles; lymphatics; skin; nerves; spine* William Williams Keen, 1907

Office Orthopedics for Primary Care: Treatment Bruce Carl Anderson, 2005-09-26

The revised and expanded 3rd Edition of this widely popular text provides proven guidance for the management of 52 of the most common musculoskeletal disorders seen in today's clinical settings including strains, sprains, overuse injuries and inflammatory and arthritic conditions. It explains each problem how a typical patient describes the discomfort, what to look for during the examination, when to request X-rays and how to draw a sound diagnosis from clinical observations. The text features updated tables of supports, braces and casts that make it easy to choose the most efficient and cost-effective immobilizers. Features the expertise of Dr. Bruce Carl Anderson, a world authority on orthopedic practice in primary care. Presents straightforward, proven how-tos for the 52 most common orthopedic problems, 20 new to this edition. Offers detailed descriptions and simple but effective anatomical drawings that demonstrate the 37 most effective local injection sites. Features 30 ready-to-copy patient information sheets that show patients how to do rehabilitation exercises. Includes many at-a-glance tables that compare dosages, outline costs, detail the uses of injectable corticosteroids, NSAIDs and calcium supplements and show supports, braces and casts. Covers new treatments that have become more common in recent years such as treatment for geriatric patients and exercise-related injuries. Features expanded patient education content including more patient handouts than ever. Includes 100 new anatomical drawings.

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