

Diagnosis and Management of Nerve Injuries Caused by Pediatric Upper Extremity Fractures

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Abstract

Although nerve injuries occur commonly with pediatric upper extremity fractures, there is very little existing literature to guide the management of those nerve injuries that do not recover during routine fracture healing and follow-up, and even less guidance is available regarding the choice of diagnostic tests such as magnetic resonance imaging (MRI) with nerve sequences, electromyography (EMG), nerve conduction velocities (NCV), ultrasound (US), or other modalities. In addition, patterns of nerve injury and timing of nerve recovery differ amongst different fractures. This review article describes the nerve injuries and specific details of humeral shaft, supracondylar, Monteggia fracture-dislocations, and forearm fractures as well as the various available diagnostic tests. We synthesize the available literature, of which most is in the adult population, as well as the extensive clinical experience of the authors, all of whom specialize in pediatric hand and upper extremity.

Key Concepts

- The vast majority of nerve injuries associated with pediatric upper extremity fractures are neuropraxias.
- The most common nerve injured in humeral shaft fractures is the radial nerve; in supracondylar humerus fractures, it is the median nerve/anterior interosseous nerve; in elbow dislocations, it is the ulnar nerve in conjunction with a medial epicondyle fracture, although the median nerve can become incarcerated during reduction of the dislocation;

Pediatric Upper Extremity Diagnosis And Management

F. William Bora



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The Pediatric Upper Extremity F. William Bora, 1986 **Practical Management of Pediatric and Adult Brachial Plexus Palsies E-Book** Kevin C. Chung, Lynda J-S Yang, John E. McGillicuddy, 2011-08-22 Practical Management of Pediatric and Adult Brachial Plexus Palsies covers in depth surgical techniques for managing disorders of this crucial nerve complex so that you can most effectively treat injuries in patients of any age Drs Kevin Chung Lynda Yan and John McGillicuddy present a multidisciplinary approach to pediatric brachial plexus injury treatment and rehabilitation obstetric considerations and other hot topics in the field With access to the full text and surgical videos online at expertconsult.com you will have the dynamic visual guidance you need to manage injuries to the brachial plexus Access the fully searchable text online at www.expertconsult.com along with surgical videos demonstrating how to perform key procedures See cases as they present in practice through color illustrations photos and diagrams that highlight key anatomical structures and relationships Apply multidisciplinary best practices with advice from internationally respected authorities in neurosurgery orthopaedics plastic surgery and other relevant fields Hone your technique with coverage that emphasizes optimizing outcomes with pearls and discussions of common pitfalls Prepare for collaborating with other physicians thanks to a multidisciplinary approach that covers medical and legal aspects in addition to surgery Find information quickly and easily with a full color layout

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Pediatric Hand Surgery Giorgio Pajardi,2023-11-15 This book describes and illustrates surgical procedures of proven efficacy in infants and children with congenital hand deformities hand traumas hand dysfunctions due to obstetric palsy of brachial plexus Essential background information is first provided on anatomy hand development and patterns of use Extensive sections are then devoted to the surgical treatment of trauma to different parts of the hand and each of the relevant congenital conditions Full guidance on treatment choice is provided with description of the treatment pathways appropriate in different circumstances and explanation of the impact of patients young age on the surgical approach Readers will learn about the complex features that may be masked even by the simplest congenital condition such as syndactyly and about the implications for treatment In depth information is also provided on the character and vital role of rehabilitation in the pediatric population Pediatricians hand surgeons plasticsurgeons pediatric surgeons rheumatologists neurologists and physiotherapists will all find that the book improves their clinical practice

Fundamentals of Hand Therapy Cynthia Cooper (CHT.),2007-01-01 Emphasizes the development of clinical reasoning skills describing the components of the evaluation process and addressing how to decide what to evaluate Covers a broad array of common diagnoses seen in hand therapy including shoulder and elbow disorders peripheral nerve problems wrist and hand fractures tendonitis and tendonosis finger sprains and deformities tendon injuries arthritis burns infections ganglion cysts stiffness Dupuytren's

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Hand Function in the Child Anne Henderson, PhD, OTR,Charlane Pehoski,2005-09-29 This comprehensive resource and clinical guide for students and practicing pediatric therapists features current information on the neurological foundations of hand skills the development of hand skills and intervention with children who have problems related to hand skills Covers foundation and development of hand skills therapeutic intervention and special problems and approaches Is readable concise and well organized with a consistent format throughout Integrates recent research findings and current thinking throughout the text Emphasizes neuroscience and the hand s sensory function and haptic perception Applies neuroscience and development frames of reference throughout Implications for practice included in each chapter Presents concepts in the foundation development chapters that are linked with the intervention chapters Seven new chapters reflect current practice in the field and cover cognition motor skills handedness fine motor program for preschoolers handwriting evaluation splinting the upper extremity of the child pediatric hand therapy and efficacy of interventions Extensively revised content throughout includes new research and theories new techniques current trends and new information sources 9 new contributors offer authoritative guidance in the field Over 200 new illustrations demonstrate important concepts with new clinical photographs and line drawings Over 50 new tables and boxes highlight important information An updated and expanded glossary defines key terms

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Campbell's Operative Orthopaedics E-Book Frederick M. Azar, S. Terry Canale, James H. Beaty, 2016-11-01 Unrivalled in scope and depth Campbell s Operative Orthopaedics continues to be the most widely used resource in orthopaedic surgery relied on for years by surgeons across the globe It provides trusted guidance on when and how to perform every state of the art procedure that s worth using with updates to the new edition including hundreds of new techniques illustrations and digital diagnostic images to keep you abreast of the latest innovations Each chapter follows a standard template with highlighted procedural steps that lead with art and are followed by bulleted text Covers multiple procedures for all body regions In depth coverage helps you accommodate the increasing need for high quality orthopaedic care in our aging population Achieve optimal outcomes with step by step guidance on today s full range of procedures brought to you by Drs Canale Beaty and Azar and many other contributors from the world renowned Campbell Clinic Expanded online library boasts high quality videos of key procedures Includes approximately 100 new techniques 300 new illustrations and 500 new or updated photos and high quality digital diagnostic images Features evidence based surgical coverage wherever possible to aid in making informed clinical choices for each patient Highlights the latest knowledge on total joint arthroplasty in the ambulatory surgery center including how to manage metal sensitivity Provides up to date details on rib based distraction implants VEPTR and remote controlled growing rods MAGEC for scoliosis diagnosis of femoroacetabular impingement FAI and its influence on development of osteoarthritis and the treatment of FAI with the mini open direct anterior approach

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Orthopaedic Knowledge Update® Pediatrics 6 Jeffrey E. Martus, 2021-01-07

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Advances and Technical Standards in Neurosurgery, Vol. 33 Nejat Akalan, C. Di Rocco, Vinko V. Dolenc, J. Lobo Antunes, J. J. A. Mooij, J. Schramm, Marc Sindou, 2008-05-06 This series has already become a classic In general one volume is published per year The advances section presents fields of neurosurgery and related areas in which important recent progress has been made The technical standards section features detailed descriptions of standard procedures to assist young neurosurgeons in their post graduate training The contributions are written by experienced clinicians and are reviewed by all members of the editorial board

Skeletal Injury in the Child John A. Ogden, 2006-04-28 The new edition of this comprehensive classic continues the tradition of offering the latest developments in the mechanisms of injury the biomechanics of fracture reduction and an understanding of the potential for healing It correlates anatomy pathology and radiography of childrens skeletal injuries with a plethora of photographs and line drawings establishing diagnosis management and treatment in a comprehensive and practical manner Important additions to this edition are an expansive chapter on the management of multiple injuries the management of complications extensive discussion of soft tissue injuries following skeletal trauma new diagnostic techniques and the use of flaps in childrens injuries Written by one of the most highly respected names in the

orthopaedic community world wide this third edition will remain an invaluable resource to paediatric orthopaedic surgeons general orthopaedic surgeons emergency room physicians orthopaedic trauma surgeons and residents and fellows in these specialities

The Basic Principles of External Skeletal Fixation Using the Ilizarov and Other Devices Leonid Solomin, 2013-02-17 The Ilizarov device has revolutionized the treatment of non healing fractures and the correction of deformities This book supplies all the information required in order to use the Ilizarov and other external fixation devices optimally it will serve as an indispensable manual for both trainee and experienced orthopedic surgeons Biomechanical principles preoperative preparation and the use of a system of coordinates to allow safer insertion of K wires and half pins are thoroughly discussed External fixation of a variety of fractures in different pathologic settings is then clearly explained in a series of detailed chapters with the aid of high quality illustrations Numerous case reports are included to illustrate the results of different treatment methods In addition postoperative management and treatment of complications are described Since the first edition the text has been thoroughly updated with inclusion of contributions from leading world experts

National Library of Medicine Current Catalog National Library of Medicine (U.S.), **Pediatric Hand Therapy** Joshua M. Abzug, Scott H. Kozin, Rebecca Neiduski, 2019-11-07 Get a quick expert overview of optimal therapeutic interventions for pediatric patients with musculoskeletal conditions of the hand This concise resource by Drs Joshua Abzug Scott Kozin and Rebecca Neiduski offers practical recommendations and guidelines along with key background information for a well rounded concise perspective on hand therapy for children You ll benefit from the knowledge and experience of orthopaedic surgeons and other members of the rehabilitation care team who provide a real world multidisciplinary approach to this complex field Covers a range of musculoskeletal conditions including congenital disorders joint disorders neuromuscular disorders sports related injuries and trauma Includes supporting background information including an overview of embryology intrauterine diagnosis and physical functional development Covers complementary practical and clinical approaches including orthotic intervention and prosthetics Editors and contributors represent orthopaedic surgeons and members of the rehabilitation care team for a well rounded perspective

Textbook of Clinical Pediatrics A. Y. Elzouki, H. A. Harfi, H. Nazer, William Oh, F. B. Stapleton, R. J. Whitley, 2012-01-10 The second edition of the textbook is planned to become a MRW textbook It will be written by 389 eminent pediatricians and scientists from leading university hospitals and health centers in North America Europe Asia and Australia Written with more than 425 chapters the book will encompass virtually all pediatric subspecialties covering every pediatric disease and organ system Its strong clinical focus with a problem based approach will help practicing pediatricians residents medical students as well as family practitioners to manage sick children in a practical way based on scientific evidence Thus it will become a valuable reference and resource for all health care practitioners dealing with pediatric patients

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