

Orthoptic Evaluation and Treatment in Orbital Fractures



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KEYWORDS

• Orthoptic evaluation • Binocular single vision • Diplopia • Eye motility • Mechanical strabismus • Prisms

KEY POINTS

- Be aware of a combination of mechanical, neurogenic, and sensory causes of diplopia.
- Check for factors influencing the absence of diplopia, such as trauma-related visual problems, abnormal head posture, or preexistent strabismus.
- The severity of the trauma does not always correlate with the impairment of motility or with the degree of diplopia.
- Always prescribe monocular eye movement therapy.
- Treat patients in the first period after trauma with press-on prisms or different types of occlusion, and plan follow-ups as is deemed necessary according to the diagnosis.

Introduction

Orbital fractures are common in facial trauma and are reported in as many as 40% of craniofacial trauma. There is no real consensus with regard to standardized examination or protocolled treatment to determine either the necessity or type of treatment.¹ Surgical indication, meaning possible orbital repair surgery, is predicated on criteria, such as enophthalmos, restriction of extraocular muscles, type and size of the fracture's defect, degree of diplopia, and clinicoradiological findings.^{1–3}

Type of diplopia

Disturbances in ocular motility in orbital fractures may have different causes, but, typically, the diplopia is incomitant in pattern. Incomitant strabismus causing the diplopia is complex; the deviation is different in the various gaze positions. This makes the choices in multifaceted treatment complex.⁴

Medial wall and orbital floor fractures are the most common fractures. Medial wall fractures often give rise to horizontal diplopia. Vertical diplopia is reported more frequently and a common symptom in orbital floor fractures (Case 1) (Fig. 1). In a majority of cases, this leads to a limitation of elevation and in a lesser degree to limitation of depression.^{5,6}

Mechanisms causing diplopia in orbital fractures

Strabismus resulting in diplopia may occur in 88% of the patients with orbital fractures. The cause of strabismus may be

diverse, often involving multiple mechanisms. One of the causes may lie outside of the orbit due to damage to one of the cranial ocular motor nerves or central/peripheral damage due to contrecoup effect of the brain (stem).⁷ Acquired neurogenic palsies frequently are seen in head trauma. Because the fourth nerve is one of the longest of cranial nerves, it is the most vulnerable of the 3 cranial nerves involved in eye movements (third, fourth, and sixth).⁸

Another cause of strabismus may be damage to the ocular muscle itself: swelling, hemorrhage, or even incarceration of the muscle, although actual entrapment of the muscle is uncommon and seen only in posterior floor fractures. Strabismus is not necessarily caused by damage to the ocular muscle itself; it may be due partly to the herniation of orbital fat and connective tissue into the surrounding sinus with subsequent traction on the muscle sheaths.

There also might be a combination of paralytic and mechanical damage causing strabismus⁹ as well as a sensory cause, meaning that a change in visual acuity disrupts binocular functioning⁹ or even decompensation of preexisting strabismus. Be aware of a combination of mechanical, neurogenic, and sensory causes of diplopia.

Role of orthoptic examination

To assess which of the mentioned mechanisms, discussed previously, is causing diplopia, it is essential to incorporate an orthoptic examination in the initial referral patterns.⁴ Unfortunately, only a few articles regarding orbital fractures include a quantitative (orthoptic) evaluation of ocular motility.^{4,5,10,11} Not all patients present themselves with typical patterns of diplopia¹² and there is no significant relation between the severity of injury and eventual ocular motility outcome (Case 1).^{5,6} Diplopia not always is the first concern of patients, initially noticed, or observed at all.¹³ Preexisting strabismus and suppression can be reasons for atypical presentation (Case

Funding: None.

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Atlas Oral Maxillofacial Surg Clin N Am 29 (2021) 41–50

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<https://doi.org/10.1016/j.cxom.2020.10.002>

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Evaluation And Treatment Of Orbital Fractures

Jessyka G. Lighthall



Evaluation And Treatment Of Orbital Fractures:

Evaluation and Treatment of Orbital Fractures David E. E. Holck, John D. Ng, 2006 This one stop resource presents all of the information needed to identify and treat orbital fractures A multidisciplinary team of specialists covers everything from normal orbital anatomy through patient evaluation and diagnostic imaging to the latest reconstructive materials and techniques for any type of orbital trauma The result is an outstanding source of complete balanced and authoritative guidance to help readers achieve the best outcomes Presents uncommonly well rounded coverage from an impressive roster of leading ophthalmologists otorhinolaryngologists oral and maxillofacial surgeons neurosurgeons plastic surgeons and radiologists Delivers step by step guidelines on today s full range of bone and cartilage graft harvesting grafting and fixation techniques alloplastic plating approaches and surgical procedures as well as management of soft tissue injuries Addresses ophthalmic and facial complications and discusses how to avoid them With more than 50 additional contributors

Management of Complications in Oral and Maxillofacial Surgery Michael Miloro, Antonia Kolokythas, 2012-02-21 Management of Complications in Oral and Maxillofacial Surgery is a comprehensive reference that covers the minor and major complications which may occur in all facets of oral maxillofacial surgery Each chapter covers the potential complications encountered during the routine practice of oral and maxillofacial surgery from the most commonly encountered complications to those less frequent and more complex with which every competent oral and maxillofacial surgeon should be familiar Drs Miloro and Kolokythas address possible complications in every aspect of OMS including anesthesia third molar surgery implant surgery maxillofacial trauma orthognathic surgery temporomandibular joint surgery cleft lip and palate surgery head and neck oncologic surgery soft and hard tissue reconstruction free tissue transfer and cosmetic facial surgery The contributors to this textbook recognized experts in their specific topic due to their surgical experience and expertise focus on the prompt recognition of each complication and consider preventative measures as well as precise management strategies considering the already compromised clinical circumstances **Rosen's Emergency**

Medicine - Concepts and Clinical Practice E-Book John Marx, Robert Hockberger, Ron Walls, 2013-08-01 Rely on Rosen s Emergency Medicine for the latest answers on every facet of emergency medicine practice For decades this medical reference book has set the standard in emergency medicine offering unparalleled comprehensiveness clarity and authority to help you put the latest and best knowledge to work for your patients in the ER Consult this title on your favorite e reader conduct rapid searches and adjust font sizes for optimal readability Compatible with Kindle nook and other popular devices Practice confidently with easily actionable dependable guidance on the entire breadth of emergency medicine topics Get expert guidance on how to approach specific clinical presentations in the ER The Cardinal Presentations Section provides quick and easy reference to differential diagnosis and directed testing for fever in the adult patient dizziness and vertigo chest pain and over 20 other frequently seen presentations in the emergency department Effectively apply the newest

emergency medicine techniques and approaches including evidence based therapies for shock high cost imaging evaluation and resuscitation of the trauma patient cardiovascular emergencies evaluation and risk stratification for transient ischemic attack TIA patients and much more Locate the answers you need quickly thanks to a user friendly full color design complete with more illustrations than ever before Access the complete contents on the go from your laptop or mobile device at Expert Consult fully searchable with links to PubMed

Peterson's Principles of Oral and Maxillofacial Surgery Larry J. Peterson, 2012 Peterson's Principles of Oral and Maxillofacial Surgery Third Edition encompasses a wide range of diverse topics making it a unique text amongst the medical and dental specialties The purpose of this concise easy to read two volume text is to provide an authoritative and currently referenced survey of the specialty of Oral and Maxillofacial Surgery It contains the necessary information for clinicians and is an ideal reference text for preparation for board certification in the specialty

Practical Management of Pediatric Ocular Disorders and Strabismus Elias Traboulsi, Virginia Utz, 2016-07-27 This case based approach to the management of pediatric eye diseases and strabismus teaches the novice as well as the experienced surgeon how to conceptualize and analyze surgical planning to maximize patient outcomes allowing readers to get inside the head of the surgeon Individual cases with clear instructions and an abundance of color illustrations presented by experts in the field teach critical information one case at a time Practical Management of Pediatric Ocular Disorders and Strabismus provides the key guiding principles of a traditional textbook in an easy to digest format Each chapter of the text tackles a common or rare clinical situation and begins with the description of an illustrative case The chapters are structured with sections on case description differential diagnosis management and outcomes with a list of possible complications and the approach to their management

Diagnosis and Management of Oculoplastic and Orbital Disorders New Orleans Academy of Ophthalmology. Session, 1995

Surgery in and around the Orbit Peter J.J. Gooris, Maarten P. Mourits, J. Eelco Bergsma, 2023-12-28 This OpenAccess textbook sheds new light on pathology in and around the orbit which is typically an area where many medical disciplines overlap Each physician brings a specific expertise but the goal should be that the end result of all this input is much more than the sum of the parts Collaboration insight and overall knowledge of all parties involved are essential to achieve an optimal patient outcome Oral and Maxillofacial surgeons have traditionally focused on the bony parts of the orbit but usually have limited knowledge of the intricacies of binocular single vision and for the Ophthalmologist it may be the other way around In the past scientific articles were often written from a single point of view resulting in tunnel vision for the physician The multidisciplinary approach to the orbit leads to an improvement in treatment that should not be underestimated and from which the patient benefits immensely But especially for the physician and the trainees a multidisciplinary consultation is a real goldmine in which a lot can be gained Not every medical problem needs to be tackled in a multidisciplinary framework but problems around the eye socket often do At Amphia Hospital in Breda the Netherlands more than fifteen years ago a collaboration between Oral and Maxillofacial Surgeons Endocrinologists

Radiologists and Ophthalmologists was initiated which has proven to be very fruitful The main focus was on Graves Orbitopathy and orbital fractures but problems associated with these conditions were also frequently encountered For those who want to follow this example or for those who are interested in both orbital surgery anatomy or ophthalmological orbital issues this book could prove to be complementary

The IOC Manual of Emergency Sports Medicine David McDonagh, David Zideman, 2015-04-01 The Manual focuses on the fieldside diagnosis and treatment of severe injuries and illnesses that can present at a sports event It concentrates on basic diagnostic skills and treatment modalities as the sports physician has often limited diagnostic and treatment facilities available Each chapter concentrates on an illness or anatomical injury and offers a structured diagnostic and therapeutic approach in this difficult pre hospital environment The chapters explain what problems are to be expected with specific conditions as well as which treatment plan should be implemented and how to evaluate and reassess those plans

Face and Neck Trauma, An Issue of Facial Plastic Surgery Clinics of North America Jessyka G. Lighthall, 2025-08-28 In this issue of Facial Plastic Surgery Clinics guest editor Dr Jessyka G Lighthall brings her considerable expertise to the topic of Face and Neck Trauma Top experts provide an up to date review of interventions and changing algorithms in the modern treatment of soft tissue and skeletal facial and neck trauma Articles focus on tips and tricks to optimize patient outcomes and the utilization of surgical adjuncts such as virtual surgical planning navigation and custom implants Contains 15 relevant practice oriented topics including frontal sinus fractures a changing paradigm management of the teeth in maxillofacial trauma special considerations in the management of pediatric facial trauma traumatic neck injuries modern evaluation and treatment technological advanced and adjuncts to optimize outcomes in craniomaxillofacial trauma and more Provides in depth clinical reviews on face and neck trauma offering actionable insights for clinical practice Presents the latest information on this timely focused topic under the leadership of experienced editors in the field Authors synthesize and distill the latest research and practice guidelines to create clinically significant topic based reviews

Oral Board Review for Oral and Maxillofacial Surgery Robert Reti, Damian Findlay, 2020-12-05 The oral board exam for the American Board of Oral and Maxillofacial Surgery ABOMS can be intimidating to many surgeons due to the broad range of information one must know for the exam However while the examination guidelines provide a general outline of topics that may be covered there is no true direction on how to prepare for it Traditionally candidates do so by using what are considered underground databanks previous test questions and power point presentations that run the gamut of commonly covered material Until now there have been no current comprehensive oral board review books available for the Oral and Maxillofacial Surgery boards Oral Board Review for Oral and Maxillofacial Surgery fills that gap as the go to resource for those attempting to successfully challenge the oral boards and for residents to polish up on their training Edited and authored by top physicians in the field this book is concise and easy to read yet thorough with high yield information An outline of the pertinent material is reviewed and a patient work up is presented

Important questions to ask signs to look for and labs images to order are included It also includes tables and keywords that are typically mentioned on the exam and also offers explanations to some key points Next are cases which are presented in a question and answer format As the case progresses more complicated scenarios requiring management are presented Lastly complications are covered which is the final section of each board scenario Included are basic topics the surgeon needs to know followed by topics that are nice to know and numerous highly debated complex questions that are discussed among candidates preparing for the exam It should be noted that the authors are not privy to any inside information about the exam What is presented is material candidates that have successfully passed the exam feel is important to know This book is not endorsed by American Association of Oral and Maxillofacial Surgeons or the American Board of Oral and Maxillofacial Surgery *Peterson's Principles of Oral and Maxillofacial Surgery* Michael Miloro, G. E. Ghali, Peter E. Larsen, Peter Waite, 2022-08-08 The new edition of this outstanding reference textbook in two volumes offers comprehensive and authoritative coverage of the contemporary specialty of oral and maxillofacial surgery The aim is to provide an all encompassing user friendly source of information that will meet the needs of residents and experienced surgeons in clinical practice and will also serve as an ideal companion during preparation for board certification or recertification examinations All of the authors numbering some 100 are distinguished experts in the areas that they address The new edition takes full account of the significant changes in clinical practice and guidelines that have occurred during recent years Readers will find clear explanations of the practical application of surgical principles with a wealth of supporting illustrative material including atlas type illustrations to complement the descriptions of specific procedures The fourth edition of Peterson's Principles of Oral and Maxillofacial Surgery is a truly exceptional resource for clinicians and students alike **Orbital Fractures:**

Understanding Treatment, Recovery, and Complications for Optimal Healing Doctor's Notes, 2025-02-19 Are you or a loved one facing the challenges of recovering from orbital fractures This comprehensive guide is your essential resource for navigating the complexities of treatment and rehabilitation after an orbital injury IN DEPTH UNDERSTANDING OF ORBITAL FRACTURES EVIDENCE BASED TREATMENT STRATEGIES COMPREHENSIVE ANALYSIS OF COMPLICATIONS HOLISTIC APPROACH TO RECOVERY PRACTICAL LIFESTYLE MODIFICATIONS FOR HEALING Orbital Fractures explores the intricacies of these injuries providing crucial insights into effective treatment options and the recovery process Readers will learn about the common complications such as infection and enophthalmos and discover lifestyle modifications that enhance healing With this book you will gain valuable knowledge on how to manage pain support recovery through nutrition and understand the psychological impacts of orbital fractures Empower yourself with the information needed to ensure optimal healing and return to daily life with confidence Plastic Surgeon: 6 Volume Set - E-Book Peter C. Neligan, 2023-09-25 Comprehensive and fully up to date Dr Peter Neligan's six volume masterwork Plastic Surgery 5th Edition remains the gold standard text in this complex area of surgery Completely revised to meet the demands of both the trainee and experienced

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Plastic Surgery Secrets Plus Jeffrey Weinzwieg,2010-04-16 Plastic Surgery Secrets the first Secrets Series title in the PLUS format offers an easy to read information at your fingertips approach to plastic and reconstructive surgery and hand surgery Jeffrey Weinzwieg has joined forces with world renowned plastic surgeons Joseph McCarthy Julia Terzis Joseph Upton Fernando Ortiz Monasterio and Luis Vasconez and others to bring you the expert perspective you need to grasp the nuances of this specialty This new edition features an additional color that highlights tables legends key terms section and chapter titles and web references All this along with the popular question and answer approach and list of the Top 100 Plastic Surgery Secrets make it a perfect concise board review tool and a handy clinical reference Maintains the popular and trusted Secrets Series format using questions and short answers for effective and enjoyable learning Provides the most current overview and authoritative coverage of all topics thanks to contributions from an impressive list of over 300 experts in the field of plastic surgery and multiple related specialties Introduces the New PLUS format with an expanded size and layout and full color for easier review more information and expanded visual elements for an overall enhanced experience Presents enhanced tables legends key terms section and chapter titles and web references through the use of additional color that makes finding information quick and easy Includes an impressive list of expert authors from plastic surgery and multiple related specialties providing authoritative coverage of all topics

Smith and Nesi's Ophthalmic Plastic and Reconstructive Surgery Evan H. Black, Frank A. Nesi, Christopher J. Calvano, Geoffrey J. Gladstone, Mark R. Levine, 2012-03-02 Smith and Nesi's Ophthalmic Plastic and Reconstructive Surgery Third Edition has taken the best of the field's classic reference text and expanded upon it continuing its reputation as the foremost guide to the subspecialty Every

practitioner of plastic and reconstructive surgery will find useful information in this comprehensive in depth text including an update on the changes and advances of the last several years and a new section on pediatric consideration Detailed chapters on ophthalmic anatomy are also included as well as sections on eyelid dermatology socket surgery and cosmetic surgery Every consideration has been made by Dr Nesi and his co editors to cover every aspect important to the ophthalmic plastic surgeon Features Fully updated and revised edition of Smith s Ophthalmic Plastic and Reconstructive Surgery Comprehensive text with detailed chapters that cover all aspects of the subject matter More than 1700 figures and 77 chapters Cumulated Index Medicus ,1980 **Orbital Fractures** Vadim P. Nikolaenko,Yury S. Astakhov,2015-06-09 This book thoroughly reviews the diagnosis and treatment of injuries of the orbital walls and apex including orbital floor medial orbital wall naso orbito ethmoid orbitozygomatic maxillary and frontobasilar fractures For each form of injury signs and symptoms are identified and clear guidance is provided on the interpretation of clinical and radiological findings and on current surgical treatment methods In addition the role of orbital imaging techniques including CT and MRI in depicting anatomic relations is explained with the aid of a wealth of radiological images and photographs The described approach to fracture management is multidisciplinary in nature and the advice is evidence based drawing on the latest published data Orbital Fractures A Physician s Manual will be an invaluable reference and guide for ophthalmologists maxillofacial surgeons neurosurgeons otolaryngologists radiologists and emergency physicians It will also be an excellent resource for all medical students residents in ophthalmology and fellows who wish to broaden their spectrum of knowledge in orbital pathology

Oral and Maxillofacial Surgery for the Clinician Krishnamurthy Bonanthaya,Elavenil Panneerselvam,Suvy Manuel,Vinay V. Kumar,Anshul Rai,2021-02-14 This is an open access book with CC BY 4 0 license This comprehensive open access textbook provides a comprehensive coverage of principles and practice of oral and maxillofacial surgery With a range of topics starting from routine dentoalveolar surgery to advanced and complex surgical procedures this volume is a meaningful combination of text and illustrations including clinical photos radiographs and videos It provides guidance on evidence based practices in context to existing protocols guidelines and recommendations to help readers deal with most clinical scenarios in their daily surgical work This multidisciplinary textbook is meant for postgraduate trainees young practicing oral surgeons and experienced clinicians as well as those preparing for university and board certification exams It also aids in decision making the implementation of treatment plans and the management of complications that may arise This book is an initiative of Association of Oral and Maxillofacial Surgeons of India AOMSI to its commitment to academic medicine As part of this commitment this textbook is in open access to help ensure widest possible dissemination to readers across the world

Plastic Surgery - E-Book Joseph E. Losee,Richard Hopper,Peter C. Neligan,2023-08-25 Comprehensive and fully up to date the six volume Plastic Surgery remains the gold standard text in this complex area of surgery Completely revised to meet the demands of both the trainee and experienced surgeon Craniofacial Head and Neck Surgery and Pediatric Plastic

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Gray's Surgical Anatomy E-Book Peter A. Brennan, Susan Standring, Sam Wiseman, 2019-11-05 Written and edited by expert surgeons in collaboration with a world renowned anatomist this exquisitely illustrated reference consolidates surgical anatomical and technical knowledge for the entire human body in a single volume Part of the highly respected Gray's family this new resource brings to life the applied anatomical knowledge that is critically important in the operating room with a high level of detail to ensure safe and effective surgical practice Gray's Surgical Anatomy is unique in the field effectively a textbook of regional anatomy a dissection manual and an atlas of operative procedures making it an invaluable resource for surgeons and surgical trainees at all levels of experience as well as students radiologists and anatomists Brings you expert content written by surgeons for surgeons with all anatomical detail quality assured by Lead Co Editor and Gray's Anatomy Editor in Chief Professor Susan Standring Features superb colour photographs from the operating room accompanied by detailed explanatory artwork and figures from the latest imaging modalities plus summary tables self assessment questions and case based scenarios making it an ideal reference and learning package for surgeons at all levels Reflects contemporary practice with chapters logically organized by anatomical region designed for relevance to surgeons across a wide range of subspecialties practice types and clinical settings and aligned to the requirements of current trainee curricula Maximizes day to day practical application with references to core surgical procedures throughout as well as the Tips and Anatomical Hazards from leading international surgeons Demonstrates key anatomical features and relationships that are essential for safe surgical practice using brand new illustrations supplemented by carefully selected contemporary artwork from the most recent edition of Gray's Anatomy and other leading publications Integrates essential anatomy for robotic and minimal access approaches including laparoscopic and endoscopic techniques Features dedicated chapters describing anatomy of lumbar puncture epidural

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