

## Dentofacial Deformities

Orthognathic Surgery: Principles, Planning and Practice is a definitive clinical guide to orthognathic surgery, from initial diagnosis and treatment planning to surgical management and postoperative care.

Addresses the major craniofacial anomalies and complex conditions of the jaw and face that require surgery Edited by two highly experienced specialists, with contributions from an international team of experts Enhanced by case studies, note boxes and more than 2000 clinical photographs and illustrations

Serves as an essential reference for higher trainees and practicing clinicians in cranio-maxillofacial surgery, orthodontics, plastic and reconstructive surgery and allied specialties

Richly illustrated, this updated and enlarged edition presents a straightforward and non-instrumental method of clinical facial analysis, providing a highly useful aid to preparing for aesthetic surgery, orthognathic surgery, and orthodontic treatments.

This book is a comprehensive guide to the surgery-first orthognathic approach for patients with malocclusion and skeletal disharmony, which has been successfully applied by the authors in their practices over the past 15 years. The approach breaks with the time-tested principles of traditional orthognathic surgery in that corrective bone surgery is performed first, without the removal of dental

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compensations, followed by orthodontic finishing. All aspects are covered with the aid of numerous illustrations, the aim being to provide surgeons with a systematic educational tool that will enable them to introduce the approach into their own practice. In addition, the book addresses one of the hot issues in orthodontics, occlusal plane-altering orthognathic surgery, in which surgical modification of the occlusal plane is employed to treat various types of dentofacial deformity and improve facial proportions. This promises to become a very powerful tool in modern orthognathic surgery.

Facial Aesthetics: Concepts and Clinical Diagnosis is a unique new illustrated resource for facial aesthetic surgery and dentistry, providing the comprehensive clinical textbook on the art and science of facial aesthetics for clinicians involved in the management of facial deformities, including orthodontists, oral and maxillofacial surgeons, plastic and reconstructive surgeons and aesthetic dentists. It aims to provide readers with a comprehensive examination of facial aesthetics in the context of dentofacial and craniofacial diagnosis and treatment planning. This aim is achieved through coupling meticulous research and practical clinical advice with beautifully drawn supporting illustrations and diagrams. Structured over 24 logically arranged and easy-to-follow chapters, Part I of Facial Aesthetics covers the historical evidence for facial aesthetic canons and

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concepts in depth. It incorporates all aspects relevant to the work of the clinician, including the philosophical and scientific theories of facial beauty, facial attractiveness research, facial expression and the psychosocial ramifications of facial deformities. Part II of the book then goes on to examine clinical evaluation and diagnosis in considerable detail under four sections, from the initial consultation interview and acquisition of diagnostic records (section 1), complete clinical examination and analysis of the craniofacial complex (section 2), in depth analysis of each individual facial region using a top-down approach (section 3) and finally focussing on smile and dentogingival aesthetic evaluation (section 4). An in-depth, thoughtful, practical and absorbing reference, *Facial Aesthetics* will find an enthusiastic reception among facial aesthetic surgeons and aesthetic dentists with an interest in refining their understanding and appreciation of the human face and applying practical protocols to their clinical diagnosis and treatment planning. Key features: Examines facial aesthetics in a clinical context Promotes an interdisciplinary approach to facial aesthetic analysis Detailed description of the systematic clinical evaluation of the facial soft tissues and craniodentoskeletal complex Detailed, step-by-step aesthetic analysis of each facial region In-depth analysis of 2D and 3D clinical diagnostic records

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Evidence-based approach, from antiquity to contemporary scientific evidence, to the guidelines employed in planning the correction of facial deformities Treatment planning from first principles highlighted Clinical notes are highlighted throughout Clearly organized and practical format Highly illustrated in full colour throughout

This new full-color reference and textbook on orthodontics and orthognathic surgery includes the latest content on surgical orthodontic techniques. Presenting the most comprehensive and sophisticated information available, it explores the integrated orthodontic and surgical management of patients with dentofacial deformity. Includes an entire section on diagnosis and treatment planning - with a strong emphasis on the diagnosis of soft tissue problems. Explains methods for treating certain dentofacial deformities with distraction osteogenesis. Provides current information on integrated treatment, where the orthodontist, the oral and maxillofacial surgeon, and/or the plastic surgeon work as a team to achieve the ideal result for each patient.

Discusses the newest computer technology for prediction/imaging techniques to view the probable "after" results before treatment ever begins. Includes up-to-date content on surgical complications and how to manage these problems. Real-life case studies visually take the reader from pre-treatment to post-treatment for the many techniques taught in the book. Provides content on adolescent growth and its relation to orthodontic treatment, maturational changes, and the

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treatment of asymmetric facial deformities with surgery and orthodontics. Includes colorful cephalometric tracings to illustrate the before-and-after results of surgery. Pre- and post-surgery cephalometric radiographs show the changes to the structures of the face and jaws. Full-color images bring the tangible results of orthodontic and oral surgery treatment to life. Ronald E. Goldstein's *Esthetics in Dentistry, Third Edition* provides a thoroughly updated and expanded revision to the definitive reference to all aspects of esthetic and cosmetic dentistry, from principles and treatments to specific challenges and complications. Provides a current, comprehensive examination of all aspects of esthetic and cosmetic dentistry Presents 23 new chapters from international experts in the field and complete updates to existing chapters Offers more than 3,700 high-quality photographs and illustrations Adds clinical case studies and treatment algorithms for increased clinical relevance Emphasizes clinical relevance, with all information thoroughly rooted in the scientific evidence

This handbook provides a short, contemporary text on the management of dentofacial deformities. The importance of a well organised, inter-disciplinary approach is emphasised throughout and the following key areas are presented: A detailed account of the role of the psychologist, from initial assessment through to post-operative support. A systematic approach to dentofacial assessment, including a section on diagnostic records and an overview of cephalometry. A logical step-by-step approach to treatment planning,

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emphasising the interactive thought process required when setting orthodontic and surgical objectives. The fundamentals of surgical orthodontics, with the scope and limitations of orthodontic appliances clearly explained for each phase of treatment. A description of orthognathic technical procedures and how potential errors can be minimised in order to improve the accuracy of model surgery. An account of how to carry out photo-cephalometric profile prediction planning, including a critique of the method. A detailed description of the full range of mandibular and maxillary orthognathic surgical procedures, including indications and complications. A chapter on higher-level osteotomies for the treatment of more severe craniofacial abnormalities is included for completeness. A series of six contrasting case studies. There is an emphasis on the technological advances that are rapidly enabling the global paradigm shift from 2D to 3D planning.

One of the most respected dental surgery books in the world, *Contemporary Oral and Maxillofacial Surgery*, 7th Edition, South Asia Edition helps you develop skills in evaluation, diagnosis, and patient management. This comprehensive text on oral surgery procedures features full-color photographs and drawings that show how to perform basic surgical techniques, including an overview of more advanced surgical procedures and the latest developments in dental implants, instrumentation, and current technology. A detailed patient evaluation section includes guidelines on when to refer patients to specialists and how to provide supportive postoperative care. New to this edition is a chapter focusing on

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anesthesia in greater depth than any of the previous editions. Written by well-known OMS educators James R. Hupp, and Edward Ellis III, and Myron R. Tucker, this book is a valuable reference for dentistry and dental hygiene students alike! UPDATED! Chapter, Contemporary Implant Dentistry, includes new and updated implant surgical techniques and virtual planning. UPDATED! Chapter, Treatment of Complex Implant Cases, features new and updated cases requiring more complex treatment, including bone augmentation surgery in combination with implants. UPDATED! Coverage of Management of Sinus Disease updated outline of the fundamental principles for evaluation and treatment of the patient with sinus disease, including endoscopic therapy. UPDATED! Coverage of Management of Medication-related Osteonecrosis of the Jaw outlines the fundamental principles for evaluation and treatment of the patient. UPDATED! Facial Cosmetic Surgery chapter is organized by nonsurgical and surgical procedures, covering popular procedures such as dermal fillers, botox, facial resurfacing, browlift and forehead procedures, blepharoplasty, rhinoplasty, and rhytidectomy. UPDATED! Content on implants, new instruments, and the latest technology help you treat your patients more effectively. Basic techniques of evaluation, diagnosis, and medical management described in enough detail to facilitate immediate clinical application. Excellent instrumentation chapter covers a wide variety of instruments and tray set-ups that OMS surgeons use. Complex Exodontia chapter describes techniques for surgical tooth extraction, including the

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principles of flap design, development, management, and suturing, as well as open extraction of single- and multi-rooted teeth, multiple extractions, and concomitant alveoloplasty. Hundreds of detailed, close-up photographs of intraoperative sites clarify textual descriptions. Coverage of complex OMS procedures give you a basic understanding of what you will face later in advanced OMS cases. NEW! Chapter, Anesthesia in Dentistry focuses on anesthesia in greater depth than any of the previous editions including local anesthesia and nitrous oxide sedation.

"This book presents a concise approach to the diagnosis and surgical treatment of patients with dentofacial deformities. In-depth chapters detail the treatment process of patient evaluation, analysis of diagnostic records, development of a visual treatment objective, treatment planning, and surgical management. The most common surgical techniques are featured in step-by-step protocols. Although the basic science of orthognathic surgery remains unchanged, the contents of this book have been updated to reflect the most current interpretation of diagnostic data, including expanded discussions of the rotation of the maxillomandibular complex and anterior open bite dentofacial deformities as well as new sections on distraction osteogenesis and the intraoral vertical mandibular ramus osteotomy. Full-color illustrations and comprehensive case reports complement the text and demonstrate treatment outcomes."--Publisher.

The fourth volume of DENTOFACIAL DEFORMITIES is the most comprehensive text available on the integration of orthodontics and surgery in the correction of dentofacial deformities. Volume IV zeroes in on the diagnosis and treatment of facial asymmetries. It also offers state of the art information on distraction osteogenesis. It features treatment

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data on TMJ problems in patients with dentofacial deformities. Other topics include: autogenous tissue harvesting techniques, frontier research on implants for orthodontic anchorage, and detailed case coverage of osseointegrated implants for facial prosthetic rehabilitation. Each chapter presents a step-by-step approach to presurgical orthodontic treatment, immediate presurgical planning, surgical techniques, and postsurgical orthodontic treatment. This text's two-color design boasts hundreds of clear, anatomic illustrations and step-by-step descriptions of orthodontic and surgical correction of dentofacial deformities. \* Step-by-step approach to diagnosing and planning treatment guides readers through the complete process of orthodontic and surgical correction of dentofacial deformities. \* Increased number of case studies with before-and-after illustrations helps readers associate critical content with actual situations. \* Focus on patient assessment and awareness of psychological needs encourages consideration of whole patient in treatment of deformities. \* Clinically relevant organization allows users to relate a particular section of the book to a specific patient population. \* Step-by-step surgical illustrations combined with textual description, gives readers a thorough understanding of how to perform surgical techniques. \* Updated techniques and new illustrations reflect state-of-the-art technology, so readers are kept abreast of the latest developments.

NEW! Chapter, Anesthesia in Dentistry focuses on anesthesia in greater depth than any of the previous editions including local anesthesia and nitrous oxide sedation. This book is mainly designed for undergraduate students, but would also serve as a reference book for dental surgeons and graduates beginning to peruse postgraduate orthodontic studies as well. The book provides a broad, yet in-depth overview of the fundamentals of the biological basis of

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orthodontics, current and contemporary orthodontic diagnostic procedures, and therapeutic clinical procedures. About the Author : - O P Kharbanda is Head, Department of Orthodontics, Centre for Dental Education and Research at the All India Institute of Medical Sciences, New Delhi. He has more than 30 years of experience in teaching and has been associated with the Department of Orthodontics, AIIMS, since the inception of its programme in 1986.

The standard in prosthodontics for nearly 50 years, McCracken's Removable Partial Prosthodontics, 13th Edition walks readers through all the principles and concepts surrounding removable partial denture treatment planning and design that today's practitioners need to know. Using an evidence-based approach, this full-color text incorporates the latest information on new techniques, procedures, and equipment, including expanded information on dynamic communication and the use of implants with removable partial dentures. From initial contact with the patient to post-treatment care, McCracken's is the complete foundation today's dentists need to successfully practice prosthodontic care. A variety of philosophies and techniques are featured throughout the text, so readers can select and incorporate applicable techniques on a case-by-case basis. Full-color drawings and photographs give readers a detailed view of techniques, materials, and anatomic detail. Evidence-based approach uses current research to help readers diagnose, design, develop, and sequence a treatment plan. Expert guidance from both authors walks readers through the latest techniques as well as technological advances specific to removable partial dentures. NEW! Standardized removable partial denture designs offered for application to the major categories of patients seen in practice. NEW! Expanded information on the use of implants with removable partial dentures highlights considerations in treatment planning

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including the selection of implants and provision of care utilizing dental implants. NEW! More information on dynamic communication which incorporates the progress being made in shared decision making with patients, especially regarding decisions made in light of patient values and 'trade-off' considerations.

Provides the latest information on all aspects of using temporary anchorage devices in clinical orthodontics, from diagnosis and treatment planning to appliances and applications. Written by some of the world's leading experts in orthodontics, *Temporary Anchorage Devices in Clinical Orthodontics* is a comprehensive, up-to-date reference that covers all aspects of temporary anchorage device (TAD) use in contemporary orthodontics. Taking a real-world approach to the subject, it covers topics ranging from diagnosis and treatment planning to the many applications and management of complications. Case studies demonstrate the concepts, and high-quality clinical photographs support the text throughout. The book begins with an overview of clinical applications and fundamental principles of TADs. It then goes on to cover biomechanical considerations for controlling target tooth movement with TADs. Biomechanical simulations for various clinical scenarios treated with TADs are addressed next, followed by an examination of histological aspects during the healing process and anatomical considerations with TADs. Other chapters cover: Class II Correction with TADs, Distalization with TADs, TAD-anchored Maxillary Protraction, Maxillary Expansion with TADs, Anterior Open Bite Correction with TADs, TAD-assisted Aligner Therapy, TADs vs. Orthognathic Surgery; Legal Considerations When Using TADs; and much more. Provides evidence-based information on the use of TADs, with a focus on improving outcomes for patients. Considers topics ranging from diagnosis and treatment planning to specific clinical

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applications and appliances Takes a real-world clinical approach, with case studies demonstrating concepts Written by international experts in the field Presents hundreds of high-quality clinical photographs to support the text Temporary Anchorage Devices in Clinical Orthodontics is an essential resource for orthodontists and orthodontic residents.

Capturing the latest thinking for the evaluation and treatment of dentofacial deformities, *Orthognathic Surgery: Principles and Practice*, covers the basic principles and concepts of dentofacial deformities along with planning, surgical techniques, surgical complications, classic patterns, and clinical presentations. Over 5,000 clinical photos and detailed art make this a valuable reference for clinical orthodontists, craniofacial surgeons, oral and maxillofacial surgeons, and residents in training. The latest in surgical protocols for OMS and Orthodontics puts you at the forefront of the orthognathic surgery field. Logically organized material aids you prior to developing treatment plans or in surgery. Over 5,000 new photos and illustrations boost your understanding of key teaching points and surgical techniques. Over 40 videos from Dr. Posnick's archive available on the companion website.

The second edition is expanded and rejuvenated with a greater focus on PG students, orthodontic educators, UG students and practitioners. The book covers entire panorama of science and clinical practice of orthodontics, from basics to clinical, presented in 58 chapters organised in 15 sections. The information is provided in-depth, literature supported, complimented with real life scenarios and case reports. A special effort has been made to include structured information on subjects of relevance which are much talked about but found only in journals.

In an organized, comprehensive, user-friendly style, this text presents state-of-the-art advances in orthodontics

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and surgical instrumentation, techniques, and adjunctive cosmetic procedures. It features coverage of conditions common to Class I, II, and III deformities, secondary cleft lip and palate dentofacial deformities, and nasal deformities associated with dentofacial deformities. Most of the chapters cover three major areas: most common orthodontic and surgical treatment of the deformity, adjunctive surgical techniques frequently helpful when added to the common techniques, and alternate treatment approaches describing treatment of less common variations of the deformity. \* Unique step-by-step approach to presurgical orthodontic treatment, immediate presurgical planning, surgical techniques, and postsurgical orthodontic treatment. \* Takes the reader through the entire process from diagnosis of the deformity to postsurgical assessment of the correction. \* Provides a detailed discussion of diagnosis and treatment planning of transverse discrepancies in the maxilla and mandible. \* User-friendly appendix on facial skeleton growth includes methods of applying growth prediction and treatment planning to patient care. \* Organized for quick and easy referral to practical information useful in clinical practice. \* Focuses on patient assessment and awareness of psychological needs to encourage consideration of whole patient in treatment of deformities. \* Depicts cosmetic procedures used to refine the esthetic results following orthognathic surgery, showing how to achieve overall improved patient results and satisfaction.

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This dissertation, "A Prospective Study of Changes in Psychosocial Characteristics of Patients With Dentofacial

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Deformities After Corrective Surgery" by Ka-shing, Suen, ???, was obtained from The University of Hong Kong (Pokfulam, Hong Kong) and is being sold pursuant to Creative Commons: Attribution 3.0 Hong Kong License. The content of this dissertation has not been altered in any way. We have altered the formatting in order to facilitate the ease of printing and reading of the dissertation. All rights not granted by the above license are retained by the author. Abstract: ?Background: Jaw corrective surgery can cause significant psychosocial impacts on patients. This prospective study aimed to investigate the longitudinal changes of psychosocial characteristics of patients with dentofacial deformities after corrective surgery and the factors that predict the psychological resilience of Hong Kong Chinese undergoing this type of surgery. Materials and Methods: A prospective cohort study was carried out from 1st June 2011 to 31st December 2012 on Hong Kong Chinese patients, who had corrective surgery as treatment for their dentofacial deformities. Self-completed questionnaires, including Brief Symptom Inventory (BSI), Adult Trait Hope Scale (AHS), Hospital Anxiety and Depression Scale (HADS), Life Orientation Test (LOT), Social Avoidance and Distress Scale (SADS) and Satisfaction with Life Scale (SWLS), were administered to each patient at the surgical consent signing date (T1), one pre-operative day (T2), 1-2 post-operative week (T3) and 3rd post-operative month (T4). Psychological outcome trajectories were established using the BSI General Severity index (GSI) at T1, T3 and T4. Five patterns of outcome trajectories were created using

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specified outcome measures of psychological distress level, including chronic dysfunction, recovery, delayed dysfunction, resilience and others. They were then categorized into two patterns of outcome trajectories (resilience and non-resilience groups) for analysis. Independence sample t-test and logistic regression analyses were conducted to investigate the significance of life orientation level at baseline to predict resilience. Results: 67 participants (23 males, 44 females; mean age 25.6) were recruited in the study. Highest hope level and psychological distress level was noted pre-operatively at the surgical consent signing date. The levels then dropped post-operatively in the first 3 months. No statistically significant difference was noted on the depression and anxiety level, social avoidance and distress level, optimism level and life satisfaction level from pre-operative to post-operative stages. The proportion of the five patterns of outcome trajectories was chronic dysfunction (22.4%), recovery (7.5%), delayed dysfunction (3%), resilience (43.3%) and others (23.8%). The logistic regression analyses showed that the pre-operative baseline optimism level of LOT was a significant predictor on the resilience characteristic of a patient after orthognathic corrective surgery. Conclusion: Patients with dentofacial deformities have high level of hope and equally high level of psychological distress at the surgical consent stage of orthognathic surgery. Their psychological distress and hope levels tend to drop during the first three post-operative months. There is no expected peri-operative change on the depression and anxiety symptoms, social avoidance and distress,

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optimism level as well as life satisfaction level in these patients. Optimism level can predict the psychological resilience of a Hong Kong Chinese in going through orthognathic surgery. Brief Symptom Inventory (BSI) and Life Orientation Test (LOT) are recommended as preoperative psychological screening tools. DOI: 10.5353/th\_b5063967 Subjects: Jaws - Abnormalities - Surgery - Psychological aspects  
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