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Cephalometric Assessment of Craniocervical Angulation, Pharyngeal Relationships, Soft Palate Dimensions, Hyoid Bone and Tongue Positions Athanasios E Athanasiou, Moschos Papadopoulos, Michael Lagoudakis and Patios Goumas 11. Aspects of Digital Computed Radiography with Cephalometric Applications Alberto Barenghi, Evangelista G Mancini and Antonino Salvato 12. Computerized Cephalometric Systems Athanasios E Athanasiou and Jens Kragsskov 13. Landmarks, Variables and Norms of Various Numerical Cephalometric Analyses - Cephalometric Morphologic and Growth Data References Carles Bosch and Athanasios E Athanasiou Index203221231241293LIST OF CONTRIBUTORSAlberto Barenghi, MD, DDS Visiting Professor Department of Orthodontics St Raphael Hospital University of Milan Milan, Italy Sheldon Baumrind, DDS, MS Professor Department of Growth and Development Head Craniofacial Research Instrumentation Laboratory School of Dentistry University of California San Francisco, California, USA Samir E Bishara, DDS, MS Professor Department of Orthodontics College of Dentistry University of Iowa Iowa City, Iowa, USA Carles Bosch, MD, DDS, MS Assistant Professor Department of Orthodontics Royal Dental College Faculty of Health Sciences University of Aarhus Aarhus, Denmark Panos Goumas, MD, DDS, Dr Med Associate Professor and Head Department of Otolaryngology University Hospital of Patras School of Medicine University of Patras Patras, Greece Jens Kragsskov, DDS, PhD Department of Neuroradiology University of Aarhus Hospital Aarhus, Denmark Andrew J Kuhlberg, DMD, MDS Assistant Professor Department of Pediatric Dentistry and Orthodontics School of Dental Medicine University of Connecticut Farmington, Connecticut, USA Michael Lagoudakis, DDS Resident Department of Orthodontics Royal Dental College Faculty of Health Sciences University of Aarhus Aarhus, Denmark Joo-Yeun Lim, DDS, MS Associate Clinical Professor, Department of Orthodontics School of Dentistry New York University New York, USA Vincenzo Macri, MD, DDS, MS, DDO Orthodontist Vicenza, Italy Evangelista G Mancini, MD, DDS Visiting Professor Department of Orthodontics St Raphael Hospital University of Milan Milan, Italy Birte Melsen, DDS, Dr Odont Professor and Head Department of Orthodontics Royal Dental College Faculty of Health Sciences University of Aarhus Aarhus, Denmark Aart JW van der Meij, DDS Resident Department of Orthodontics Royal Dental College Faculty of Health Sciences University of Aarhus Aarhus, Denmark Rainer-Reginald Miethke, DDS, MD, Dr Med Dent, PhD Professor and Head Department of Orthodontics Centre of Dental Medicine Charite University Clinic Humboldt University of Berlin Berlin, Germany5Louis A Norton, DMD Professor and Graduate Orthodontic Program's Director Department of Pediatric Dentistry and Orthodontics School of Dental Medicine University of Connecticut Farmington, Connecticut, USA Moschos Papadopoulos, DDS, Dr Mcd Dent Lecturer Department of Orthodontics School of Dentistry Aristotle University of Thessaloniki Thessaloniki, GreeceAntonino Salvato, MD, DDS Professor and Head Department of Orthodontics St Raphael Hospital University of Milan Milan, Italy Smorntree Viteporn, DDS, MDSc Associate Professor Department of Orthodontics Faculty of Dentistry Chulalongkorn University Bangkok, ThailandSam Weinstein, DDS, MS Professor Emeritus Department of Pediatric Dentistry and Orthodontics School of Dental Medicine University of Connecticut Farmington, Connecticut, USA6PREFACE AND ACKNOWLEDGMENTSSince its introduction in 1931 by Broadbent and Hofrath in the United States and Germany, respectively, radiographic cephalometry has become one of the most important tools of clinical and research orthodontics. It is not an exaggeration to say that significant progress in the understanding of craniofacial growth and development, and important innovations in orthodontic diagnosis and treatment, have been achieved thanks mainly to the application, study and interpretation of cephalograms. The aim of this book is to provide a comprehensive presentation of the most important theoretical and practical aspects of cephalometric radiography. Applications of the information contained within it can be made in both clinical and research orthodontic environments. The book constitutes a starting point for the newcomer to the field of cephalometry, but is also an 'all-inclusive' reference source for academics, researchers and clinicians. The book contains information and concepts based only on sound scientific evidence, supported by credible and specific literature. For the sake of originality, several figures from classical and well known cephalometric works have been reproduced in the text by the kind and generous permission of the copyright owners. The editor and contributors would like to express their gratitude to all those who gave permission for the reproduction of illustrations. Credits are given under each figure accordingly. A collective acknowledgment is also given to all those researchers, teachers and clinicians throughout the world who have provided our profession with their invaluable experience, and whose important contributions to the field of cephalometric radiography have enabled patient care to progress to a more rigorous scientific level. The book was written with the help of many people whose expertise was necessary in order to properly present, address and discuss the various topics included. The editor is very much indebted to all the contributors for their enthusiastic acceptance of his invitation to participate in the project and their excellent collaboration. Special thanks also go to the publishers, Mosby-Wolfe. The result of this effort is a work that deals with the following subjects, chapter by chapter: Chapter 1 reviews contemporary radiological technical aspects, addresses important considerations for the quality control of radiographic images, and provides guidelines for protection from radiation. Chapter 2 constitutes a comprehensive and systematic presentation of all anatomical structures of the skull, radiographic images of which are used to identify the various cephalometric landmarks. All osseous, dental and soft tissue structures are illustrated and described by means of anatomical diagrams and radiographic anatomical imaging. Cephalometric landmarks are also identified in tracings of all the important regions and structures of the skull. Chapter 3 provides an exhaustive discussion of the characteristics of the various cephalometric analyses, which enables the 'optimum' variables for the assessment of relationships, size and posture of regions or structures to be selected. Following the presentation of some critical observations and general concepts centering on the questions "Why do we choose a particular cephalometric analysis over another?" and "Which is the best cephalometric evaluation method?", the author justifies his selection of the 'best' variables for evaluating sagittal basal relationships, vertical basal relationships and dento-alveolar relationships. Suggestions concerning the non-metric assessment of the skull and surrounding anatomic units, and graphical representations of the numerical data and non-numerical analyses are also presented. Chapter 4 comprises a step-by-step description of the most important methods for assessing dentofacial changes using cephalometric superimpositions. The chapter also contains information on superimpositions with regard to changes in the overall face, the maxilla and its dentition, the mandible and its dentition, and the amount and direction of condylar growth as well as the evaluation of mandibular rotation.7Chapter 5 is an in-depth presentation and analysis of the errors of cephalometric measurements, which can occur either during radiographic projection and measuring or during landmark identification. The limitations of the various methods of growth prediction, and superimposition techniques, are also discussed. Chapter 6 is unique in the literature of the field. Starting with a comprehensive review of the most important aspects of frontal cephalometry, it includes information on the technique, tracing and identification of landmarks, and the aims of this diagnostic tool. A p

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