

3D virtual treatment planning of orthognathic surgery: a step-by-step approach for orthodontists and surgeons /

Swennen, Gwen R. J., editor

Internet Resources

Monografía

This color atlas and manual provides clinicians with systematic, standardized, but also individualized step-by-step guidance on 3D virtual diagnosis, treatment planning, and outcome assessment in patients undergoing orthognathic surgery for maxillofacial deformities. Drawing on 20 years of experience, the authors elucidate the clinical potential of the approach while also highlighting current pitfalls and limitations. The opening two chapters discuss the 3D imaging workflow and its integration into daily clinical routine and comprehensively describe cone-beam CT virtual diagnosis. The stepwise 3D virtual planning of orthognathic surgery and transfer of the 3D virtual treatment plan to the patient in the operating room are then thoroughly explained, and the unprecedented potential of 3D virtual evaluation of treatment outcome, documented. Finally, after provision of all this essential background information, the closing chapter illustrates the application of the 3D virtual approach in different types of maxillofacial deformity. Orthodontists and orthognathic and orthofacial surgeons will find 3D Virtual Treatment Planning of Orthognathic Surgery to be a superb guide and resource.

https://rebiunoda.pro.baratznet.cloud: 28443/Opac Discovery/public/catalog/detail/b2FpOmNlbGVicmF0aW9uOmVzLmJhcmF0ei5yZW4vMzQzODE0MDcovery/public/catalog/detail/b2FpOmNlbGVicmF0aW9uOmVzLmJhcmF0ei5yZW4vMzQzODE0MDcovery/public/catalog/detail/b2FpOmNlbGVicmF0aW9uOmVzLmJhcmF0ei5yZW4vMzQzODE0MDcovery/public/catalog/detail/b2FpOmNlbGVicmF0aW9uOmVzLmJhcmF0ei5yZW4vMzQzODE0MDcovery/public/catalog/detail/b2FpOmNlbGVicmF0aW9uOmVzLmJhcmF0ei5yZW4vMzQzODE0MDcovery/public/catalog/detail/b2FpOmNlbGVicmF0aW9uOmVzLmJhcmF0ei5yZW4vMzQzODE0MDcovery/public/catalog/detail/b2FpOmNlbGVicmF0aW9uOmVzLmJhcmF0ei5yZW4vMzQzODE0MDcovery/public/catalog/detail/b2FpOmNlbGVicmF0aW9uOmVzLmJhcmF0ei5yZW4vMzQzODE0MDcovery/public/catalog/detail/b2FpOmNlbGVicmF0aW9uOmVzLmJhcmF0ei5yZW4vMzQzODE0MDcovery/public/catalog/detail/b2FpOmNlbGVicmF0aW9uOmVzLmJhcmF0ei5yZW4vMzQzODE0MDcovery/public/catalog/detail/b2FpOmNlbGVicmF0aW9uOmVzLmJhcmF0ei5yZW4vMzQzODE0MDcovery/public/catalog/detail/b2FpOmNlbGVicmF0aW9uOmVzLmJhcmF0ei5yZW4vMzQzODE0MDcovery/public/catalog/detail/b2FpOmNlbGVicmF0aW9uOmVzLmJhcmF0ei5yZW4vMzQzODE0MDcovery/public/catalog/detail/bababbbcovery/public/catalog/detail/bababbbcovery/public/catalog/detail/bababbcovery/public/cat

Título: 3D virtual treatment planning of orthognathic surgery a step-by-step approach for orthodontists and surgeons Gwen R.J. Swennen, editor

Editorial: Berlin Springer [2016] 2017

Descripción física: 1 online resource (xv, 568 pages) illustrations (some color)

Nota general: Includes index

Contenido: Foreword I; Foreword II; Preface; Acknowledgements; Introduction; Contents; Abbreviations; Contributor; 1: Imaging Workflow for 3D Virtual Treatment Planning of Orthognathic Surgery; 1.1 Image Acquisition for 3D Virtual Treatment Planning of Orthognathic Surgery; 1.1.1 Image Acquisition and Virtual Rendering of the Patient's Head; 1.1.2 Additional Image Acquisition of the Patient's Dentition and Occlusion; 1.1.3 Additional Image Acquisition of the Patient's Head; 1.2 Processing of Acquired Image Data Towards a 3D Virtual Augmented Model of the Patient's Head 1.2.1 Principles of Rigid Registration 1.2.2 Without the Use of Plaster Dental Models; 1.3 Virtual Mandibular Autorotation;

Additional Recommended Reading; 2: 3D Virtual Diagnosis of the Orthognathic Patient; 2.1 Systematic Virtual Diagnosis of the Patient's Deformity, Anatomy and Pathology; 2.1.1 Dento-maxillo-facial Deformity and Bite; 2.1.2 Individual Anatomy and Pathology; 2.1.3 Airway; 2.1.4 TMJ; 2.2 3D Cephalometric Analysis of the Patient; 2.2.1 Set-Up of a 3D Cephalometry Reference Frame 2.2.2 3D Cephalometry of the Patient's Hard Tissues and Teeth (3D-VPS1)2.2.3 3D Cephalometry of the Patient's Soft Tissues (3D-VPS2); 2.3 The Potential of 3D Mirroring and Colour Distance Maps in Enhanced Patient Diagnostics; 2.3.1 3D Virtual Mirroring; 2.3.2 Colour Distance Maps; Additional Recommended Reading; 3: 3D Virtual Treatment Planning of Orthognathic Surgery; 3.1 The Virtual Natural Head Position (v-NHP) and Planning Head Position (PHP); 3.2 3D Virtual Osteotomies (3D-VPS3); 3.2.1 Le Fort IOsteotomy: Video; 3.2.2 Bilateral Sagittal Split Osteotomy: Video 3.2.3 Chin Osteotomy: Video 3.2.4 Additional Facial Osteotomies; 3.3 3D Virtual Occlusal Definition (3D-VPS4); 3.3.1 Non-segmental Occlusal Definition; 3.3.2 Segmental Occlusal Definition; 3.4 Principles of "Roll", "Yaw" and "Pitch" in the 3D Virtual Scene; 3.5 "Step-by-Step" Individualised 3D Virtual Treatment Planning (3D-VPS5); 3.5.1 "Step 1": Maxillary Occlusal Cant Evaluation/Correction ("Roll"); 3.5.2 "Step 2": Upper Dental Midline Evaluation/Correction; 3.5.3 "Step 3": Overall Evaluation of Facial Asymmetry After Virtual Occlusal Definition 3.5.4 "Step 4": Evaluation/Correction ofFlaring ("Yaw")3.5.5 "Step 5": Upper Vertical Incisal Position Evaluation/Correction; 3.5.6 "Step 6": Sagittal Upper Incisal Position Evaluation/Correction; 3.5.7 "Step 7": Profile Evaluation/Occlusal Plane Correction ("Pitch"); 3.5.8 "Step 8": 3D Chin Position Evaluation/Correction; 3.5.9 "Step 9": Patient Communication oftheIndividualised Treatment Plan; 3.5.10 "Step 10": Final Adjustments ofthe3D Virtual TreatmentPlan; Additional Recommended Reading; 4: 3D Virtual Treatment Planning Transfer intheOperation Theatre

Copyright/Depósito Legal: 962326179

ISBN: 9783662473894 electronic bk.) 3662473895 electronic bk.) 9783662473887 print) 3662473887

Materia: Skull- Surgery Three-dimensional imaging in medicine Cephalometry Imaging, Three-Dimensional Cephalometry Crâne- Chirurgie Imagerie tridimensionnelle en médecine Céphalométrie MEDICAL- Surgery-General Cephalometry Skull- Surgery Three-dimensional imaging in medicine

Autores: Swennen, Gwen R. J., editor

Enlace a formato físico adicional: Print version 3D virtual treatment planning of orthognathic surgery. Berlin: Springer, [2016] 9783662473887 3662473887 (OCoLC)908374354

Baratz Innovación Documental

- Gran Vía, 59 28013 Madrid
- (+34) 91 456 03 60
- informa@baratz.es