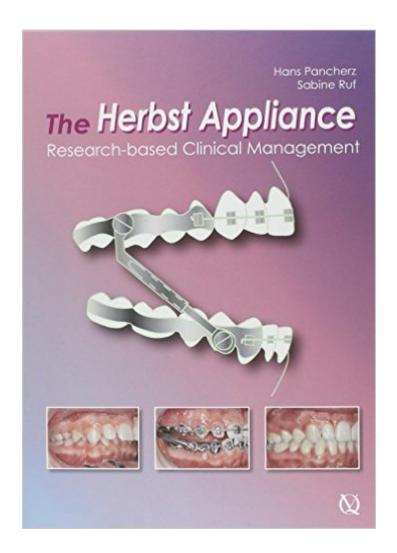
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The Herbst Appliance: Research-based Clinical Management





Synopsis

This book is based on more than 30 years of scientific and clinical work with the Herbst appliance in the therapy of Class II malocclusions. Elaboration of the clinical use of this noncompliance fixed functional appliance include the following topics: Appliance design and construction Short- and long-term treatment effects in the management of Class II:1 and Class II:2 malocclusions Mandibular growth stimulation in patients treated at different stages of somatic and skeletal maturation Headgear effect of the Herbst appliance Therapy influence on the frequency of extractions Advantages and disadvantages of an early versus a late treatment approach Successful application of the Herbst appliance in young adults (20 to 30 years of age) Herbst therapy as an alternative to orthognathic surgery in nonsyndrome adult Class II malocclusionsAdditionally, this book addresses the possible harmful effects of the Herbst appliance on the temporomandibular joint, the anchorage teeth, and the tooth-supporting hard and soft tissue structures. Table of Contents 1. Historical Background2. Dentoskeletal Characteristics of Class II Malocclusions3. Design, Construction, and Clinical Management of the Herbst Appliance4. Derivates of the Herbst Appliance5. Experiemental Studies on Bite Jumping6. Herbst Research Subjects and Methods7. Short-term Effects on the Dentoskeletal Structures8. Long-term Effects on the Dentoskeletal Structures9. The Headgear Effect of the Herbst Appliance10. Effects on TMJ Growth11. Effects on Mandibular Growth and Morphology12. Effective TMJ Growth 13. Effects on the Skeletofacial Growth Pattern14. Effects on the Facial Profile15. Effects on Muscular Activity16. Effects on TMJ Function 17. Treatment of the Retrognathic and Prognathic Facial Type 18. Treatment of Hyper- and Hypodivergent Class II: 1 Malocclusions19. Anchorage Problems20. Effects on Anchorage Teeth and Tooth-Supporting Structures21. Treatment Indications22. Treatment Timing23. Treatment of Adults An Alternative to Orthognathic Surgery24. Complications25. Relapse and Retention26. Concluding Remarks

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