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Key Words: Skeletal mandibular retrusion, Adolescent; Vestibular Shield, Straight wire appliance.

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CA6094

Orthodontic Treatment With Deep Overbite In A Short-Faced Female

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Introduction: This case report shows a five-year observation of orthodontic treatment involving extraction in an adult female with a short face, deep anterior overbite and periodontitis, with the expectation of providing some new thoughts for similar cases.

Case description: An adult female patient complained of lip protrusion, similar to her father's facial profile. The patient presented with periodontitis, Angle Class II Division 1 malocclusion, crowding, a short-face, deep overbite and deep overjet. Our treatment plan involved extracting four first premolars to align the teeth, closing the extraction space with maximum maxillary anchorage and moderate mandibular anchorage. After 23 months of treatment, the patient achieved stable occlusion and an aesthetic profile, with several gingival black triangles having disappeared.

Discussion: The treatment principle for this patient involves root-controlled retraction of the anterior teeth and extrusion of the posterior teeth, resulting in a clockwise rotation of the occlusal plane. The use of double keyhole loops can effectively manage the vertical height of the upper anterior teeth, thereby preventing the deepening of the overbite due to the "pendulum effect". Extensive alveolar bone remodeling and improved gingival black triangles were observed in the upper anterior region after treatment, which correlated with the alignment of the teeth, the correction of deep overbite and excellent plaque control in the patient.

Conclusion/clinical significance: For patients with periodontitis and a deep overbite of the anterior teeth, standardized orthodontic treatment can eliminate adverse traumatic stimuli, which facilitates the remodeling of periodontal tissues.

Key Words: Deep overbite, Short face, Teeth extraction, Periodontitis.

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CA5948

Treatment Of Class III With Facemask Therapy

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Introduction: Angle Class III malocclusion has been a challenge and one of the most difficult malocclusions concerning diagnosis, prognosis and treatment. Diagnosis, treatment planning and prognosis depend on patient age, growth potential and severity of malocclusion.

Case description: The aim of this case report was to describe and discuss the treatment of a patient with skeletal Class III malocclusion with mechanical orthopedic appliances. Female patient, age 9 years with skeletal Class III malocclusion was treated with the Delair Facemask as a specialized orthodontic appliance, which applies controlled, continuous forces to the facial structure, aiding in the proper alignment of the teeth and promoting optimal jaw development.

Discussion: The SNA angle had increased while SNB decreased resulting in a normal jaw relationship (ANB = 2°). The results of this case showed that Class III malocclusion should be intercepted as early as possible to permit growth redirection, mainly when the maxilla is the primary etiologic factor.

Conclusion/clinical significance: Maxillary intramembranous growth has a better response to orthopedic treatment, based on growth control and redirection, thus contributing for early intervention success. Early intervention, adequate indication of appliances, and patient compliance are key factors for good outcomes.

Key Words: Angle Class III malocclusion, interceptive treatment, Delair Facemask.

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CA6087

Class II Division 1 And Posterior Scissor Bite: Angelalign Therapy

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Introduction: This case highlights the efficacy of clear aligner therapy in addressing complex Class II division 1 malocclusion with unilateral posterior scissors bite, demonstrating a non-invasive approach for skeletal-dental and aesthetic improvement.

Case description: A 9-year-old male presented with a convex facial profile, retrognathic mandible (SNB: 73.9°), excessive overjet (6.0 mm), and left posterior scissor bite. Cephalometric analysis confirmed a skeletal Class II pattern (ANB: 6.2°, Wits: +2.0 mm). Treatment involved sequential clear aligners (Angelalign, SmartTrack material; Angelalign Technology Inc.) over 12 months, incorporating precision cuts, optimized