

December 5, 2001

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Dear Dr. Haas,

Here is a brief overview of the project "Effects of Maxillary Protraction With and Without Palatal Expansion".

- Name of the principal investigator (PI), as well as the names of all other investigators

Dr. Patrick Turley and Dr. Hong B. Moon

- Title of the Project

Effects of Maxillary Protraction With and Without Palatal Expansion

- Institution

UCLA

- Brief Summary

Correction of a Class III malocclusion with face mask therapy, with or without palatal expansion appears to result from a combination of skeletal and dental changes that produce an improvement in the skeletal, dental relationships, and soft tissue profile. The treated group (N=43) demonstrated statistically significant hard and soft tissue movements affecting the entire dentofacial complex. Skeletal change was a combination of anterior and vertical movement of the maxilla, and posterior and vertical movement of the mandible. Mandibular position was directed backward and downward but with a minimal increase in lower face height and mandibular inclination. Dental changes also contributed to the correction, and soft tissue changes resulted in a more convex profile. This study demonstrated that, in this sample, facemask therapy with or without palatal expansion, produced equivalent changes in the dentofacial complex that combined to improve the Class III malocclusion. These results suggest that the indication for palatal expansion should be based on clinical criteria for transverse correction.