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A Case Study of RAMPA Therapy in a Patient with class I Anterior Crowding and Asthma and Chronic Sinusitis: CT Image Evaluation

Abstract:

The case presented here is a 7-year-9-month-old girl who was diagnosed with asthma (inhaler) and chronic sinusitis by an otolaryngologist. She had a medical history of catching a cold once and suffering for about 3 months from around the age of 2, and visited our hospital at 7 years and 9 months with the main complaint of her teeth alignment. The CT scan of the patient showed opacity in all sinuses, and since the usual orthodontic treatment by tooth extraction narrows the dental arch and compresses the sinuses, there is a risk of worsening the symptoms. Therefore, we adopted Right Angle Maxillary Protraction Appliance therapy (RT), which can expand the craniofacial complex forward, and obtained good results, which we will present here. The paranasal cavity volume (mm³), vertical length (mm), horizontal length (mm), and depth (mm) showed a significant increase from 1823, 32.52, 39.37, and 45.43 in 7y9m to 64060, 72.3, 85.67, and 95.7 in 13y6m, respectively.

Biography

Yuko Okai is working as a nurse. She realized the importance of “things that can be eaten with the mouth,” so she entered Osaka Dental University at the age of 28 and obtained her PhD degree in pediatric dentistry, believing that it was related to children’s growth and development. Based on her own experience of suffering from nasal congestion since childhood, she opened the “children and Women Dental Clinic”, in Tokyo, Japan, in 2017 with the belief that she should spread RAMPA to many children.