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Orthopedic class 3 treatment with skeletal anchorage

The craniofacial morphology of class 3 patients is most often characterized by retrognathic maxilla, prognathic mandible or both. About half of class 3 patients are reported to have a maxillary retrognathism hence maxillary protraction is essential.

Different treatment options exist in order to correct the skeletal deficiency, including maxillary protraction with facemask or bone anchors. The use of temporary anchorage devices (TADs) provide absolute anchorage for tooth movement in order to avoid dental adverse effects in terms of mesialization of the maxillary dentition, proclination of upper incisors and dental crowding with the risk of impaction of permanent teeth; especially the maxillary canines.

Correction of class 3 malocclusion in growing children using mentoplate combined with hybrid hyrax distalizer has several advantages including distalization of the upper first molars and transverse expansion simultaneously with maxillary advancement. The symphyseal placement of the mentoplate allows early onset of treatment without waiting for the eruption of permanent teeth. The combination of hybrid hyrax appliance in the upper jaw and mentoplate in the lower jaw transfers the orthopedic forces to the skeletal structures resulting in a mainly skeletal effect.

This oral presentation will present the latest research about class 3 orthopedic treatment with skeletal anchorage including presentation of clinical cases.

Keywords: Angle class 3 malocclusion, maxillary protraction, skeletal anchorage, bone anchors, rapid maxillary expansion.

Biography:

Dr. Sarah Joda Kathem, graduated as a specialist in orthodontics from the University of Copenhagen in 2020 and is working as a specialist in orthodontics at the Department of oral and maxillofacial surgery, where she treats patients with severe craniofacial anomalies requiring orthognathic surgery. Furthermore, she performs orthopedic treatment of referred class 3 patients with mentoplate. Main field of research is orthopedic treatment of class 3 patients with skeletal anchorage.

Before completing the postgraduate program in orthodontics, she was granted a research scholarship from The Danish Rheumatism Association in 2017 and was working as a research assistant and clinical instructor at the department of pediatric dentistry and clinical genetics.