## **Oral Health & Maxillofacial Surgery**

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## Complications Associated with Surgically Assisted Rapid Palatal Expansion

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**Background:** The purpose of this retrospective clinical study was to evaluate the surgical complications associated with the surgically assisted rapid palatal expansion (SARPE).

**Materials and methods:** A total of 41 patients, were enrolled in the study. The skeletally mature patients who had the diagnosis of maxillary transverse maxillary deficiency (TMD) were treated surgically under local or general anesthesia. The mean follow-up time was 6 months. Recorded perioperative and post-operative complications were discussed within the current literature.

**Results:** No serious complications were observed intraoperatively. Eight patients showed postoperative complications including neurosensory deficits, maxillary sinus infection, epistaxis, fistula formation and incisional dehiscence. Neurosensory deficits were the most commmon findings.

**Conclusions:** The present findings suggest that, minor complications were observed associated with SARPE without pterygomaxillary separation. Neurosensory disturbances were mostly seen. On the other hand the technique may be performed safely also under local anesthesia.

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## E- Craft with graft

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Bone replacement grafts are widely used to promote bone formation and periodontal regeneration. The different bone grafting biomaterials that are marketed nowadays are synthetic or natural. Among natural ones, biomaterials derived from mammal bone are of great interest, since the structure, the chemical composition and the morphology of the mineral part of bone coming from different mammal species is quite similar if not identical. This presentation has been created to describe the main features and indications of the Bioteck, a natural bone substitutes. Bioteck has 21 years of history, is an Italian Biological Company, founded in 1995, manufactures heterogenous graft and horse-derived substitutes for bone, cartilage and soft tissues reconstruction in Orthopaedics, Spine, General and Oral-Maxillofacial Surgery, supplies its materials in more than 65 countries worldwide. It is placed at the heart of its business because of its exclusive enzymatic tissue processing and reasarch and developmental activities. Bioteck bone substitutes are obtained from equine bone tissue using an exclusive chemical-physical enzymatic deantigenation process that's why the company claims guarantee of quality and safely, biocompatible, osteoconducting, and undergoes complete remodeling , preserving the original biological and biochemical features of mammal bone. These natural bone graft substitutes of equine origin available informs like bio-gen (granules, gels, putty and blocks) , osteo-plant (sheets & membranes), bio-collagen (gel & membranes), pericardial membranes from equine heart etc widely used in periodontal surgical procedures in small to big reconstructions(3 to 4 wall defects), peri-implant defect (up to 3 threads defect), every type of periodontal defects ,in management of post extractive sockets, sinus lift procedures, vestibular ridge augmentation, to cover horizontal and/or vertical onlay grafts, and to maintain bone profiles.

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