



A Case Of Maxillary Anterior Teeth Traction After Extraction Of Compound Odontoma With Digital Guide Plate

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BACKGROUND

Odontoma is usually asymptomatic and detected during routine radiological examination or evaluation of delayed eruption of teeth. Early diagnosis and surgical removal of odontoma are the keys to achieve good curative effect.

CASE REPORT

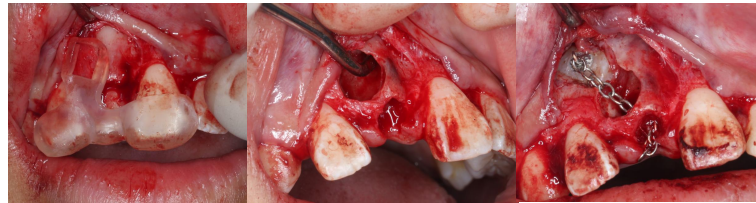
This was a 10 year old female patient with a chief complaint that the upper anterior teeth had not been replaced for many years. Clinical intraoral examination tooth 51 had not fallen out, tooth 11 were not seen in the mouth, and the remaining permanent teeth had erupted except for the retained 51.



Imaging examination: CBCT shows tooth 11 high impactions, located near the nasal base, on the labial side of tooth 21, with the long axis of the teeth close to parallel to the ground. There is a high-density mass between 11 and 51, and when enlarged, a large amount of tooth-like elements can be seen, with varying sizes.



Due to the large extent of the odontoma and its proximity to the crest of the alveolar ridge, the high position of the tooth 11, and the large amount of buccal cortical bone that needed to be removed, it was decided to use a digital guide plate to assist in determining the extent of bone removal.



Start Ortho
2023.01

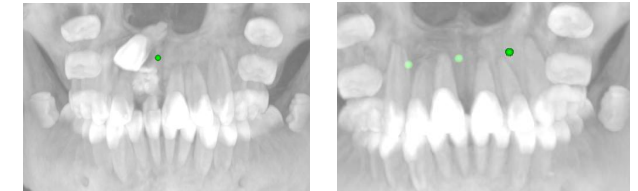
Change Fixed
Appliance
2023.06

Retention
2023.07

Finish Ortho
2023.09

FOLLOW-UP

The day after surgery, the parents said that the child did not experience any discomfort. One week after surgery, the stitches were taken out, traction was started. After 7 months of treatment, the treatment was completed. Everything is good in the six months after the end of orthodontic treatment.



CONCLUSION

The digital guide plate can be applied to the extraction of supernumerary teeth, odontoma, apical surgery, etc. Reducing the operation time and bone loss can help to reduce the probability of postoperative swelling and discomfort.