

Mini-screws for orthodontic anchorage

**Temporary Anchorage Devices (TADs) to enhance
orthodontic tooth movement**

Drs. Alan Rosenfeld and George Mandelaris
Diplomates, American Board of Periodontology

Initial Examination



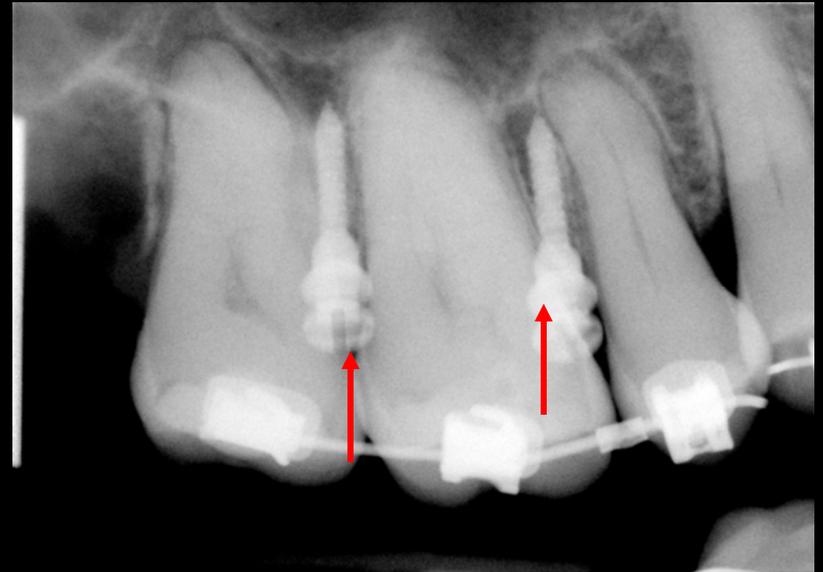
Initial Panorex

Multiple tooth malpositioning as a result of tooth loss over time.

Orthodontic therapy is required to realign teeth to proper orientation.

- Patient presented with missing teeth and eruption of the maxillary molars as a result of going many years without bottom teeth.
- Orthodontic therapy was agreed upon to help correct the mal-aligned teeth so that implants could be placed in the most favorable position for long-term success. Aligning the malposed teeth will create a more favorable bite relationship and ensure that stress distribution is more evenly distributed within the arches.
- The greatest challenge is to move the erupted molars up, since these teeth are large & this movement is difficult

Temporary Anchorage Devices (TADs)



Xray showing mini-screws (red arrows) in position between tooth roots

- Mini-screws have been placed between teeth to help the orthodontist more predictably accomplish the desired tooth movement. Simple anesthetic is needed to place them and over the counter pain medication, if any, is used post operatively.
- The mini screws do NOT integrate with the bone and are easily removed after the orthodontic phase, usually without any anesthetic.
- Mini-screws also reduce the level of patient compliance needed to achieve the end result

Temporary Anchorage Devices (TADs)

BEFORE



AFTER

