

# Orthodontic Anchorage E. H. Angle (1907), L. Ottofy (1923) Orthodontic Anchorage

Denotes the nature and the degree of resistance to displacement of teeth offered by an anatomical unit when used for the purpose of tooth movement

"FOR EVERY ACTION
THERE IS AN EQUAL
AN OPPOSITE
REACTION"

## How Have we Preserved Anchorage in the Past?

#### APPLIANCES:

- Head Gear
- TP/Nance Combo
- Lip Bumper
- Lingual Arches
- Rick-A-Nator
- Removable Appliances, etc.

#### SWA - MECHANICS:

- Cortical Bony Anchorage
- Root Mass
- Crimpable Stops
- "V" Bends on the AW
- Utility Arches
- "Off Center Bends" (Differential Torque),etc.

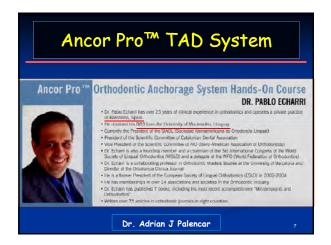
With the invention and development of the <u>Temporary Anchorage Device (TAD)</u>, a.k.a Mini-screw, Micro-screw, Mini-implant, Micro-implant, we are able to achieve "<u>ABSOLUTE" MAXIMUM ANCHORAGE</u>

### ABSOLUTE ANCHORAGE???

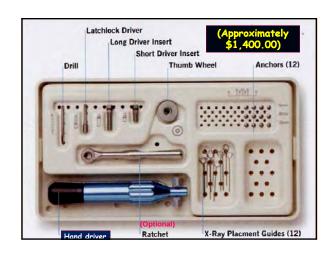
According to evidence based research, there is a definite displacement of the TAD when applying the force in the neighborhood of 0.5 - 1.5 mm, depending

on:

- The size of the TAD
- Thickness of the cortical bone
- The amount and direction of the force





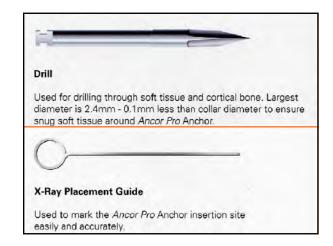




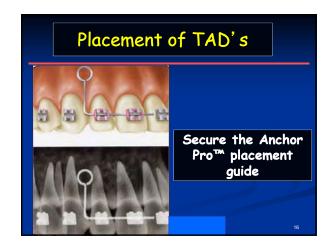


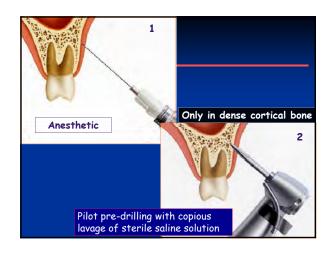




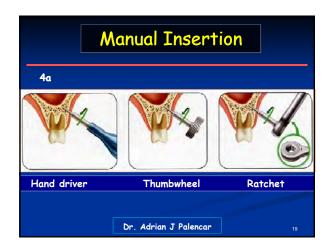




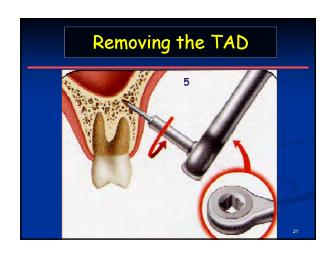


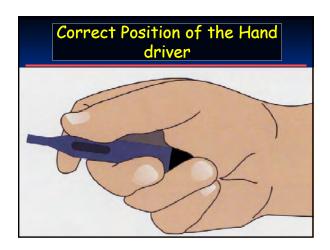


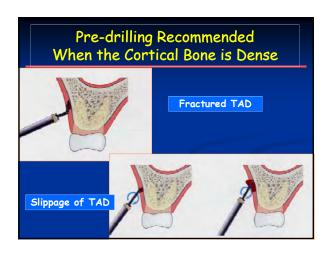




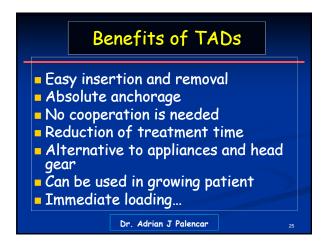


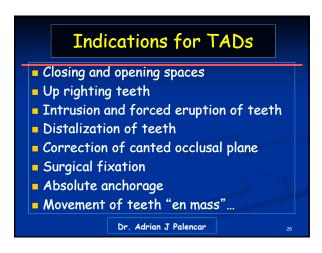


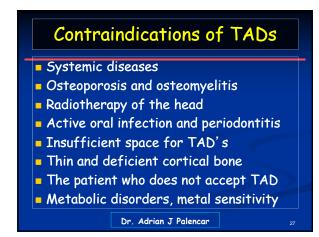


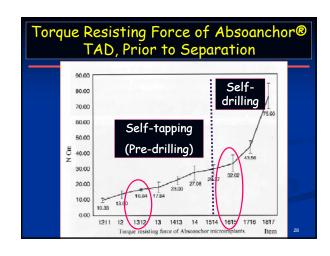




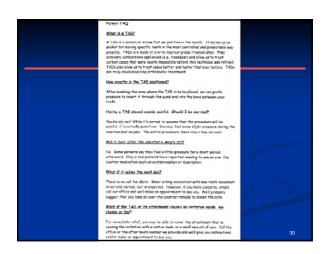


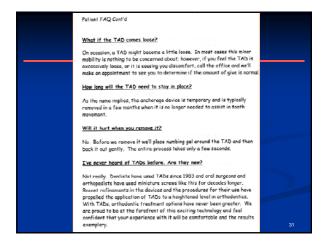


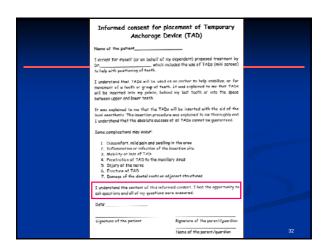












Information for the Patient:

TEMPORARY ANCHORAGE DEVICES (TADs)

TADs are mini screws that are inserted in the maxilla or the mandible and they serve as support to the movement of the teeth to be corrected during orthodontic treatment.

For effective dental movement, it is necessary to have a point of support, and occasionally the rest of the teeth do not offer sufficient resistance. Tabs are made of completely biocompatible material such as titanium, which is used for dental prosthesis or in other medical sciences such as troumatology.

The procedure of insertion is very fest and painless, and is carried out with local ancesthesia. However, in most cases, it can be done without ancesthesia. Smokers or mouth breathers are more prone to infection or inflammation. It is very important to maintain good oral hygiene and to also use antiseptic mouthwesh after eating.

If the visible part of TADs provokes discomfort in the lips, cheeks or tague, it can be covered with wax or dental silicon. If you notice inflammation around the micro implant or any mobility, please contact our office.



