2015 AAO annual session in San Francisco

Bridging Science & Technology

Tough Cases Made Easy
TADs & IDT

Johnny Liaw
MASTER CLINICIAN

R.G. “Wick” Alexander, DDS, MSD

Dr. Alexander

Dr. Sinclair
Q
Dr. Sinclair  What are your greatest clinical challenges?

A
Dr. A  Attempting to treat an adult surgical case nonsurgically has been my greatest clinical challenge.
A severe clinical challenge is to treat patients who do not have a “full deck of cards” (missing permanent teeth).
Tough Cases Made Easy
with TADs & IDT

Surgical Cases treated nonsurgically

Mutilated Dentitions
U1-SN 91 (108±5°)
The amount of incisor retraction with TADs was no less than that with orthognathic surgery. 7.5 mm incisor retraction, 2 mm molar distalization.
superimpositions showed total arch distalization of upper dentition.
Tx. Plan?
13 mm incisor retraction

5 mm molar distalization
Skeletal Class II
High MPA
Protrusion
Upright U1
Proclined L1
Tx. Plan?
No cosmetic surgery
Skeletal Class II
High MPA
Dental compensation
Large OJ
Severe protrusion
Thick soft tissue
9.5 mm incisor retraction
4 mm incisor intrusion
7 mm incisor retraction
Exostosis after massive amount of incisor retraction
Mutilated dentition

- Missing
- Lack of anchorage
- Elongation
- Difficult in molar intrusion
Correction of occlusal plane canting
Periodontal surgery to remove the exostosis
Lower molar intrusion!
Tx plan 4: Close 14, 26, 37
+ 36, 46 Autotransplant
Which one will you choose?

Single root

Prognosis
Why did we bond all the teeth?

Make them loosened

Atraumatic extraction
Why delayed extraction?

In case of fracture during extraction
Since I am an orthodontist...

archwire splinting

instead of suturing
.0195 Respond to help initial stability
Why LH NiTi archwire?
After autotransplantation...
Suture removal 1 week
**Reattachement**

- **3 days**: fibrin & erythrocytes
- **1~2 weeks**: fibroblasts & collagen fibers
- **3~4 weeks**: regularly aligned bundles of collagen fibers
- **8 weeks**: near normal PDL
TEAM = Together Everyone Achieves More
Take home message

Total Arch Distalization could be achieved by the use of miniscrews.
Take home message

Posterior TADs not between roots
Take home message

Anterior TADs for bite opening and anti-bowing
Take home message

Beware of the boundary of tooth movement