

CASE PRESENTATION

**Provided by a General Dentist
from
Trinity Bay, Newfoundland**

Class I Crowded

Megan: 13 years of age



Pre-Treatment

- **Dental:**
 - Class I Crowded
 - Retrusive Mx & Md Incisors
 - Crossbite on Mx Laterals
 - Good Prognosis for Wisdom teeth
- **Skeletal:**
 - Class I
 - Retruded upper lip angle
 - Possible Excessive Md Growth
 - Open Growth Direction
 - Maxilla is Posteriorly Displaced



Pre-Treatment Panorex

- The prognosis for 2nd molar replacement is good.
- The roots of the wisdom teeth have not formed and they are in good position.



Treatment Objectives



- Develop the Pre-Maxilla
 - Increase Arch Width
- Eliminate the crossbite on Mx laterals
 - Develop the Md Arch Length
- Align the Arches with Fixed Bracket Therapy
 - Retention

Treatment Plan

Phase I:

- Special Protocol for 2nd Molar Replacement
- Mx 3-Screw Sagittal & Md Standard Sagittal

Phase II:

- Reevaluate for a second Mx Standard Sagittal

Phase III:

- Fixed Bracket Therapy

Retention:

- Mx & Md Standard Hawley

Appliance Expansion

- Compliant Patient
- Beautiful Arch Development
- Reciprocal Force Develops the Pre-maxilla



Fixed Bracket Therapy



Case Treatment Summary

Megan: 13 years of age

Phase I: 4 months

- 2nd Molar Replacement in all four quadrants
Mx 3-Screw Sagittal & Md Standard Sagittal

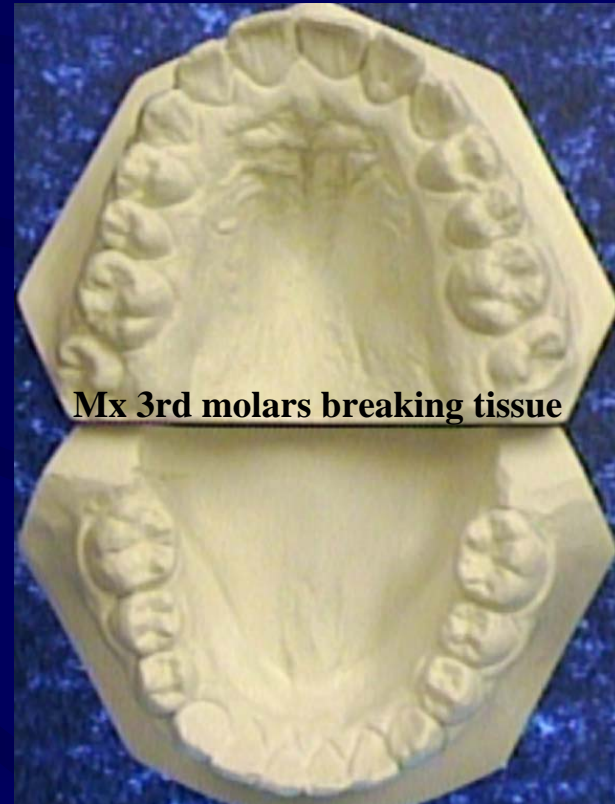
Phase II: 8 months

- Fixed Bracket Therapy & Vertical Box Elastics

Total Treatment: 12 months

Retention: Mx Hawley & Md 3x3

Finished Treatment

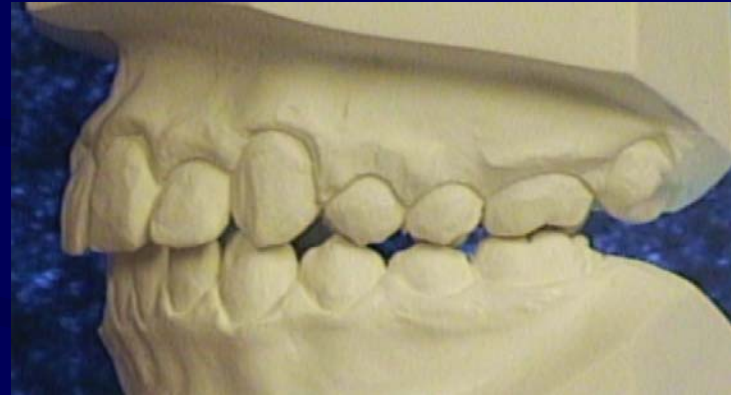


Mx 3rd molars breaking tissue

Pre & Post Treatment



Pre & Post Treatment



Pre & Post Treatment



Doctor's Comments

- Meagan was a problem right from the start
- Meagan and her parents turned the screws more than advised and broke the appliance.
- We were uncertain if Meagan was wearing the appliance all the time. Broken clasps on two occasions.
- Once the activation sequence was sorted out, it worked like a charm.
- Megan and the parents have been informed that relapse will occur if she does not comply with retention.

Something to share with you!

- Megan and her father turned the screws

4 turns (1mm)

on Wednesday and
Sunday!

– i.e:

4 turns at a time!

- I would recommend that activation of the screws be indicated in the Daily Report Booklet provided from the laboratory.
- This could eliminate any errors in expansion of the appliance.
- It would be a good reminder.

Patient's Comments



Megan and her parents are very pleased with the treatment.