

CASE PRESENTATION

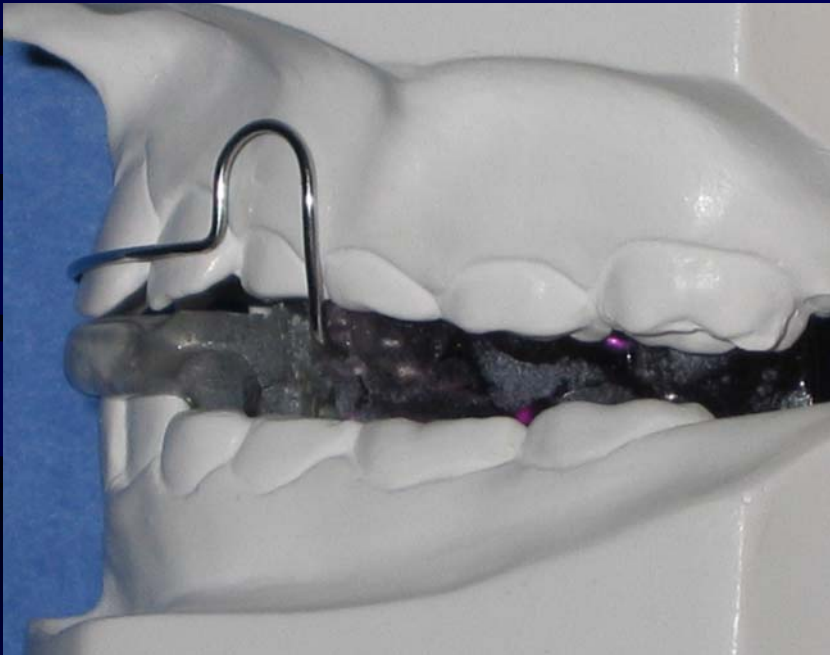
**Arch development
with a Bionator**

The Bionator I Appliance



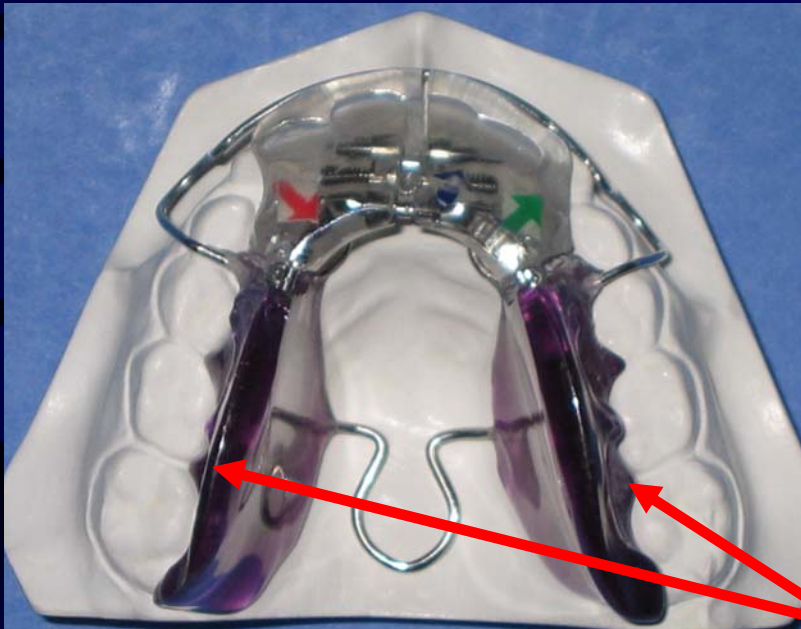
- Orthopedic Corrector has three-screws
- Early/mixed dentition
- Support new vertical
- Support new anterior/posterior position
- Dual Bite situations
- Weak musculature
- Lip seal
- **Adult TMJD treatment**

Construction bite for a Bionator I



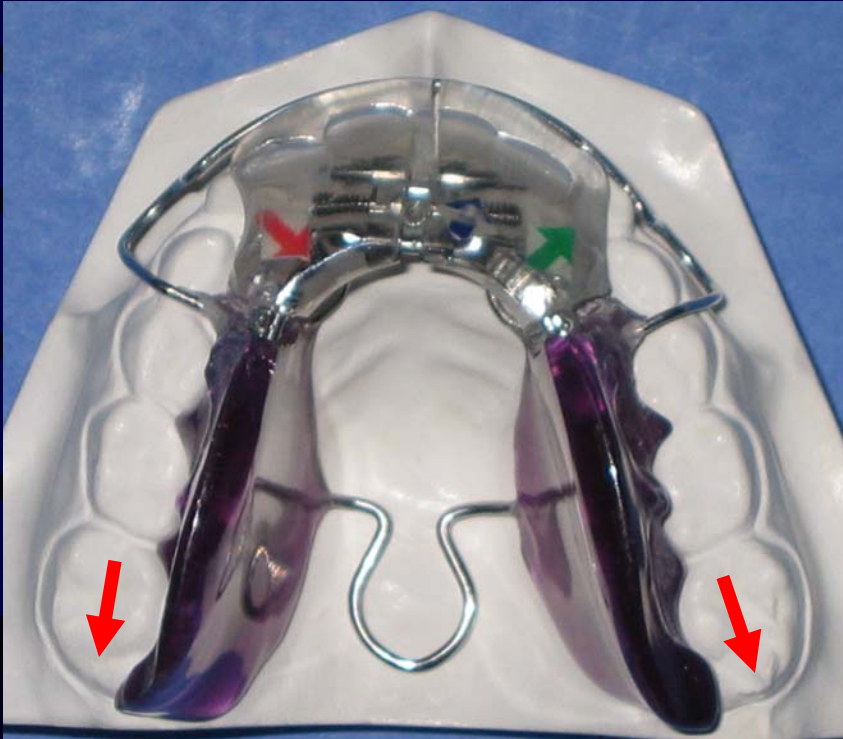
- Nearly edge to edge incisally
 - no further than super class I cuspid.
- **Be sure the incisal opening is 2 1/2 to 3mm.**
- The Bionator will encourage transverse development, A-P correction and detorque the upper incisors if required.
- **The Bionator should be worn for nine to twelve months 24/7 excluding meals.**

Fabrication of the Bionator I



- During the **mixed dentition** stage, the laboratory will disk the distal lingual of the upper deciduous molars in order to ensure a large wedge of acrylic mesial to the upper 1st molars.
 - The wedge is **critical** in order to maintain the A-P correction.
- Be sure this wedge is always present.**

Bionator Mechanics



- The force produced on the wedges by the musculature results in a headgear effect on the upper 1st molars.
- Without a good wedge, the labial bow will fracture.
- **Labial bow is an indicator.**

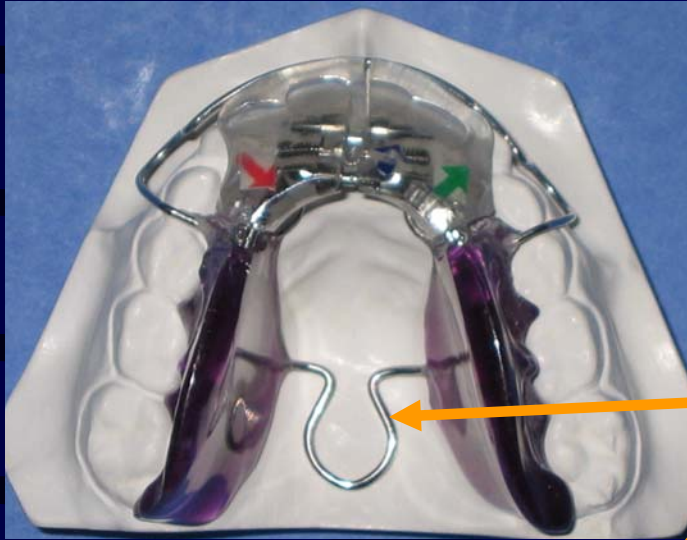
Adapt Labial Bow Away 1mm per month.



#1 Amber
Amber has been so compliant with her braces she's ended up in a functional Xbite.
I don't want to make this girl wear a face mask. She has already had a sagittal - still looks like she needs more room
What about another sagittal to jump the bite?
Please advise July



Activation & Adjustment



- Activate the mid-expansion screw every Sunday
- Cut the lingual spring after one month in order to allow for expansion.

- **Open the coffin spring monthly**

- **Initially adapt the labial bow away from the labial surface of the teeth 1mm each month.**

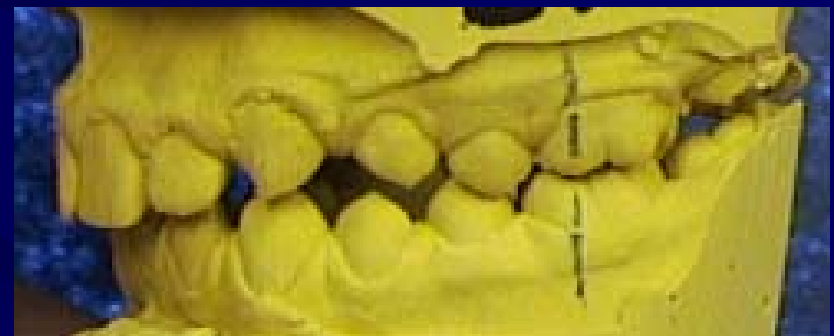
- Later you may wish to contact the incisal third of the upper centrals with the labial bow in order to detorque them.



Development with a Bionator



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SUGGESTED READING

“THE SLEEPING GIANT”

Article by Dr. Terry Spahl

International Journal of Orthodontics
Volume 13#3 – Fall 2002 – Pages 9-19