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 1\textsuperscript{st} molars.

• Without a good wedge, the labial bow will fracture.

• \textbf{Labial bow is an indicator.}
Adapt Labial Bow Away 1mm per month.

Amber has been so compliant with her brace too, 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 17.
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

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